JVC

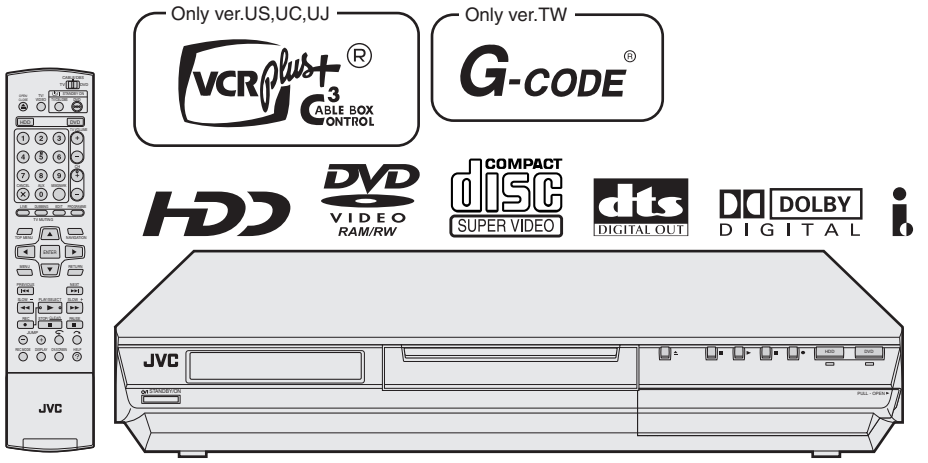
SERVICE MANUAL

DVD&HDD VIDEO RECORDER

DR-MH20SUC, DR-MH20SUJ, DR-MH30SUS, DR-MH30SUC DR-MH30SUJ, DR-MH30STW

Area Suffix

US ---------- U.S.A.
UC ---------- Canada
UJ ---------- U.S.A. Militaly
TW ---------- Taiwan



DR-MH20SUC, DR-MH20SUJ [D4HR20]
DR-MH30SUS, DR-MH30SUC, DR-MH30SUJ, DR-MH30STW [D4HR25]

Since the whole mechanism assembly unit is replaced, the DVD recorder mechanism of this unit need not be adjusted.

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No.YD026
2004/10

SPECIFICATION

	DR-MH20SUC,DR-MH30SUC,DR-MH30SUS	DR-MH30STW	DR-MH20SUJ,DR-MH30SUJ
GENERAL			
Power requirement	AC 120 V~, 60 Hz	AC 110 V - 240 V~, 50 Hz/60 Hz	
Power consumption	Power on : 35 W Power off : 16.2 W	Power on : 37 W Power off : 19.3 W	
Temperature	Operating : 5°C to 40°C(41°F to 104°F) Storage : -20°C to 60°C(-4°F to 140°F)		
Operating position	Horizontal only		
Dimensions (W × H × D)	435 mm × 70 mm × 345.5 mm (17-3/16" x 2-13/16" x 13-5/8")		
Weight	6.1 kg(13.5 lbs)		
Input/Output			
S-video input	Y:0.8-1.2 Vp-p, 75 ohms C : 0.2 -0.4 Vp-p, 75 ohms		
S-video output	Y : 1.0 Vp-p, 75 ohms C : 0.3 Vp-p, 75 ohms		
Video input	0.5- 2.0 Vp-p, 75 ohms (pin jack)		
Audio input	-8 dB, 50 kilohms (pin jack) Corresponding to mono (left)		
Audio output	-8 dB, 1 kilohms (pin jack)		
i.Link	4-pin for DV input		
Component video output	Y : 1.0 Vp-p, 75 ohms CB/CR, PB/PR: 0.7 Vp-p, 75 ohms Corresponding to copy protection		
Digital audio output	Optical: -18 dBm, 660 nm Coaxial: 0.7 Vp-p, 75 ohms Corresponding to Dolby Digital and DTS Digital Surround Bit stream Selectable in digital audio output setting menu		
RCA connectors	IN x 3, OUT x 2		
VIDEO/AUDIO (DVD Deck)			
Recording time	Maximum 8 hours (with 4.7 GB disc) (XP) : Approx. 1 hour, (SP) : Approx. 2 hours, (LP) : Approx. 4 hours, (EP) : Approx. 6 hours, (FR) : Approx. 1 hour - 8 hours		
Audio recording system	Dolby Digital (2 ch) Linear PCM (XP mode only)		
Video recording compression system	MPEG2 (CBR/VBR)		
VIDEO/AUDIO (HDD Deck)			
Video recording compression system	MPEG2 (VBR)		
Audio recording system	Dolby Digital (2 ch) Linear PCM (XP mode only)		
Recording time	HDD capacity DR-MH30S:160 GB,DR-MH20S:80 GB Recording Time DR-MH30S (XP) 1 hour: Approx. 34 hours, (SP) 2 hours: Approx. 68 hours, (LP)4 hours : Approx. 136 hours, (EP)6 hours : Approx. 204 hours, (FR480)8 hours : Approx. 272 hours DR-MH20S (XP) 1 hour: Approx. 17 hours, (SP) 2 hours: Approx. 34 hours, (LP)4 hours : Approx. 68 hours, (EP)6 hours : Approx. 102 hours, (FR480)8 hours : Approx. 136 hours		
TUNER/TIMER			
Channel coverage	VHF: Channels 2 - 13 UHF: Channels 14 - 69 CATV: 113 Channels		
Memory backup time	Approx. 60 seconds		
ACCESSORIES			
Provided accessories	RF cable, Audio/Video cable, Satellite Controller, Infrared remote control unit, "AA" battery x 2		RF cable, Audio/Video cable, Conversion plug, Satellite Controller, Infrared remote control unit, "AA" battery x 2

E.& O.E. Design and specifications subject to change without notice.

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SECTION 1
PRECAUTION

1.1 Safety Precautions

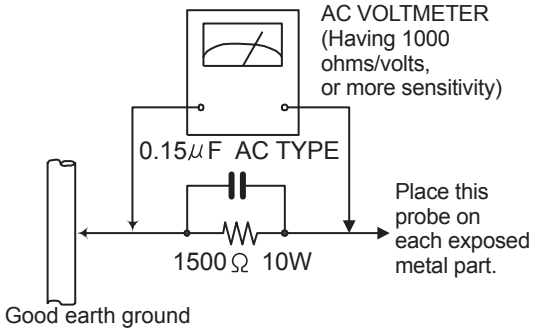
(1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.

(4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

(5) Leakage shock hazard testing
After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.Do not use a line isolation transformer during this check.
- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000Ω per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
Measure the AC voltage across the resistor with the AC voltmeter.
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 Warning

(1) This equipment has been designed and manufactured to meet international safety standards.
(2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
(3) Repairs must be made in accordance with the relevant safety standards.
(4) It is essential that safety critical components are replaced by approved parts.
(5) If mains voltage selector is provided, check setting for local voltage.

1.3 Caution

Burrs formed during molding may be left over on some parts of the chassis.
Therefore, pay attention to such burrs in the case of preforming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▮) and ICP (●) or identified by the " ⚠ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.
(This regulation dose not Except the J and C version)

1.5 Preventing static electricity

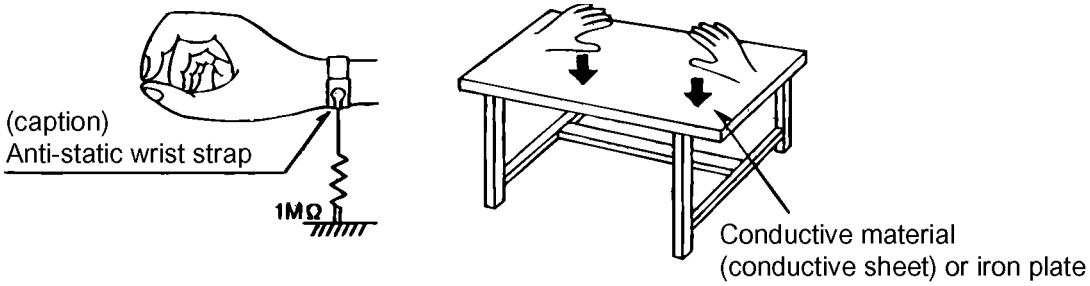
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.5.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as DVD players or recorder.
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench
Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself
Use an anti-static wrist strap to release any static electricity built up in your body.



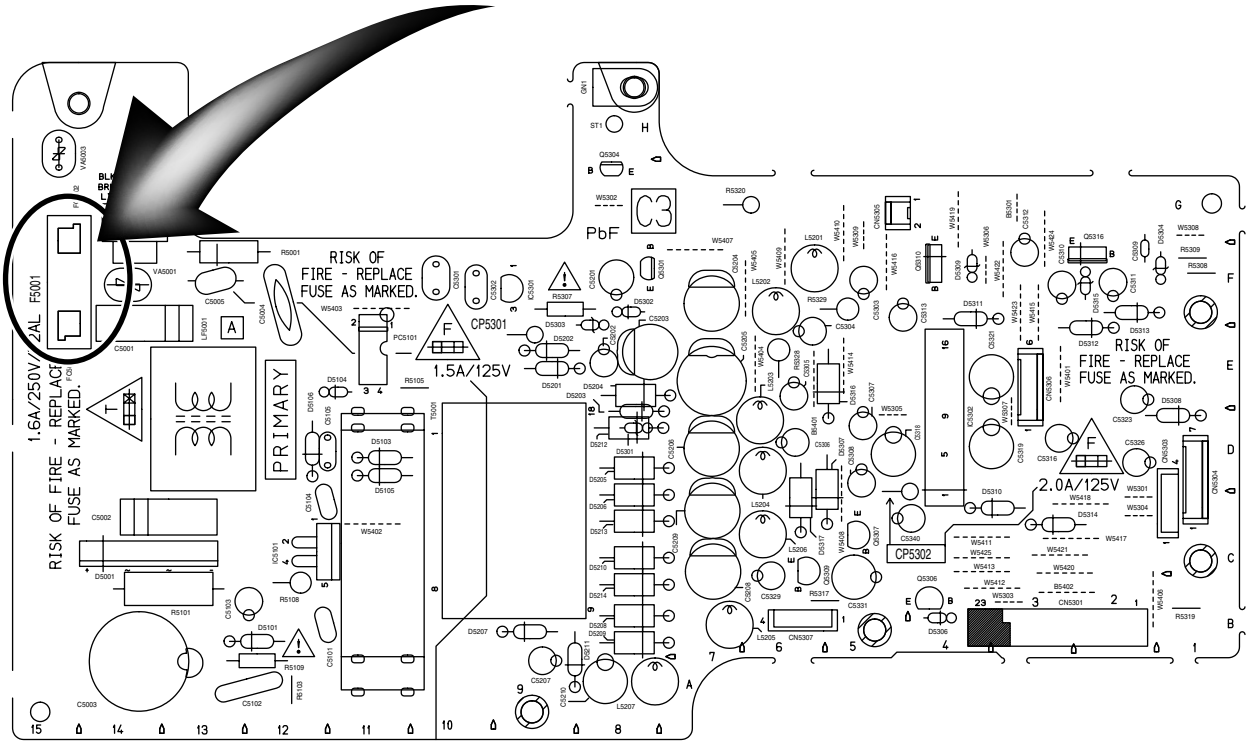
(3) Handling the optical pickup
- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

1.6 Handling the traverse unit (optical pickup)

(1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
(2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
(3) Handle the flexible cable carefully as it may break when subjected to strong force.
(4) I t is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

1.7 Important for laser products

Importance administering point on the safety



Full Fuse Replacement Marking	**Marquage Pour Le Remplacement Complet De Fusible**
Graphic symbol mark (This symbol means fast blow type fuse.) should be read as follows ;	Le symbole graphique (Ce symbole signifie fusible de type á fusion rapide.) doit être interprété comme suit ;
FUSE CAUTION	**PRECAUTIONS SUR LES FUSIBLES**
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSES ; **F5001 : 1.6 A / 250 V**	**POUR UNE PROTECTION CONTINUE CONTRE DES RISQUES D'INCENDIE, REMPLACER SEULEMENT PAR UN FUSIBLE DU MEME TYPE ;** **F5001 : 1.6 A / 250 V**

1.8 Important for laser products

1.CLASS 1 LASER PRODUCT

2.DANGER : Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The CD,MD and DVD player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified here in may result in hazardous radiation exposure.

⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

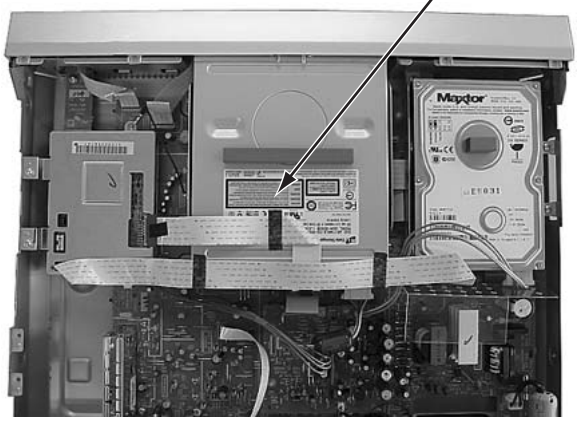
CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSUREBTO BEAM.	**VARNING :** Synlig och osynlig laserstråling när den öppnas och spärren är urkopplad. Betrakta ej strålen.
ADVARSEL : Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling.	**VARO :** Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymätttömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi.

REPRODUCTION AND POSITION OF LABEL and PRINT

WARNING LABEL and PRINT

CAUTION	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
ADVARSEL	SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSAETTELSE FOR STRÅLING SE IKKE IND I STRÅLEN - HELLER IKKE MED OPTISKE INSTRUMENTER.
ADVARSEL	SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNDGÅ EKSPONERING FOR STRÅLEN STIRR IKKE INN I STRÅLEN ELLER SE DIREKTE MED OPTISKE INSTRUMENTER.
VARO!	AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LÄPI.
VARNING	SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT.

On mechaism assembly



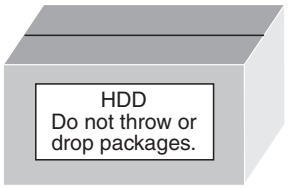
1.9 Hard Disk Drive (HDD) Handling Precautions

The HDD is a precision device for use in reading and writing a large amount of data on or from a disk rotating at a high speed. If it is not handled carefully, either abnormal operation may result or it may not be possible to read data. The HDD is sensitive to the following items and special care is required in safeguarding against them when handling an HDD. Also take care in handling a set incorporating an HDD.

(1) Vibrations and impacts
(2) Static electricity
(3) Rough handling

1.9.1 Handling in transport, etc.

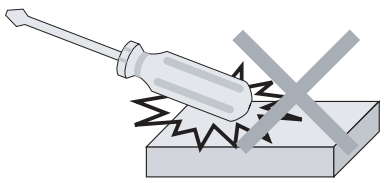
- Be sure to place the HDD in the manufacturer's specified package carton before transport.
- When receiving a package containing an HDD, check that the package carton is not damaged (such as having holes in the carton, crushed corners, etc.).
- Do not impact the packaging carton when loading or unloading it.
- It is not permitted to use the inner package carton only for transporting an HDD.
- Do not stack package cartons one upon another.



Be sure to package and transport the HDDs correctly.

1.9.2 Handling an HDD in the stand-alone status

- When handling an HDD on a hard workbench, place an antistatic mat (rubber sheet) or similar object on the hard surface (to prevent any impacts occurring between the HDD and bench).
- Do not stack the HDDs one upon another.
- Do not knock an HDD with a hard object (such as a screwdriver).
- Do not place an HDD on its side panel without using a support (do not place an HDD in an unstable position).



1.9.3 Handling the installation of an HDD

- Place antistatic mats or similar sheets on all of the surfaces on which work is conducted or when the HDD is transported.
- Do not permit the HDD to knock against the set's brackets.
- When screwing the brackets, be careful not to knock the HDD. When using a power screwdriver, use a low-shock model and arrange the tightening torque properly.
- When mounting an HDD in a main body, take care not to apply excessive force to the brackets.

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3
DISASSEMBLY

There is a part different from the photograph according to the model and the destination though explains this disassembly method by using DR-MH30SE.

3.1 Main body section

3.1.1 Remove the top cover (See figure 1)

(1) Remove the four screws **A** attaching the top cover on both sides of the main body.
(2) Remove the five screws **B** attaching the top cover on the back of the main body.
(3) Raise the both sides and lower part of the rear of the top cover, with opening them slightly in an outward direction. And the top cover will be removed.

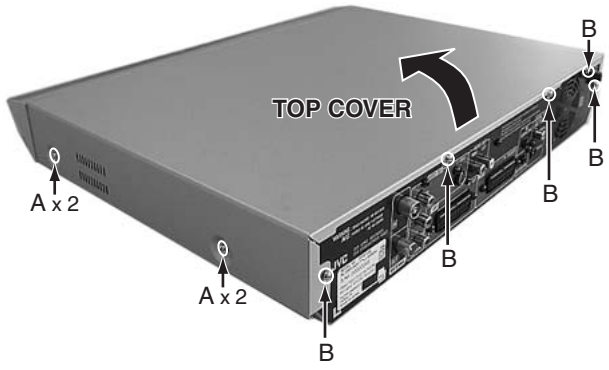


Fig.1

3.1.2 Remove the front panel assembly and HDD (See figure 2, figure 3, figure 4, and figure 5)

- Prior to performing the following procedure, remove the top cover.
- There is no need to remove the drive unit.

(1) Remove the four screws **C** attaching the HDD.
(2) Disconnect the socket wire from connector CN5307 on the switching regulator board.
(3) Disconnect the card wire from connector on the HDD.
(4) Disconnect the card wires from connector CN3001, CN3002, CN4001 on the main board.
(5) Hooks **a** and **b** are removed respectively, and the front panel assembly is removed.

NOTE:

In case of attach a front panel assembly, please let a card wire pass in the hole in the front part of a chassis, respectively, and connect.

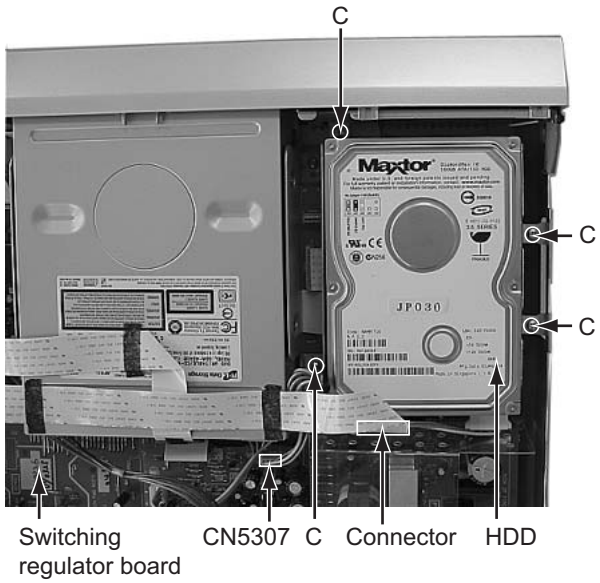


Fig.2

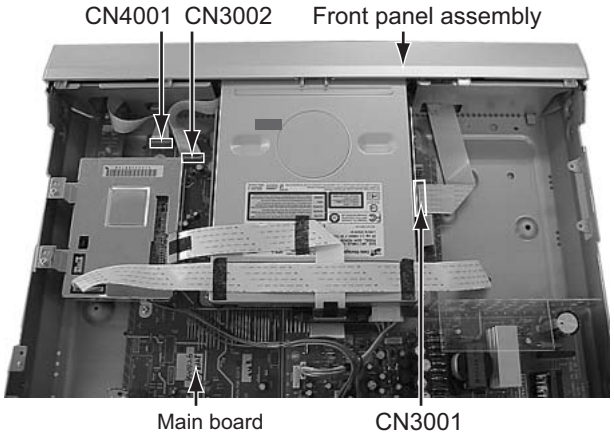


Fig.3

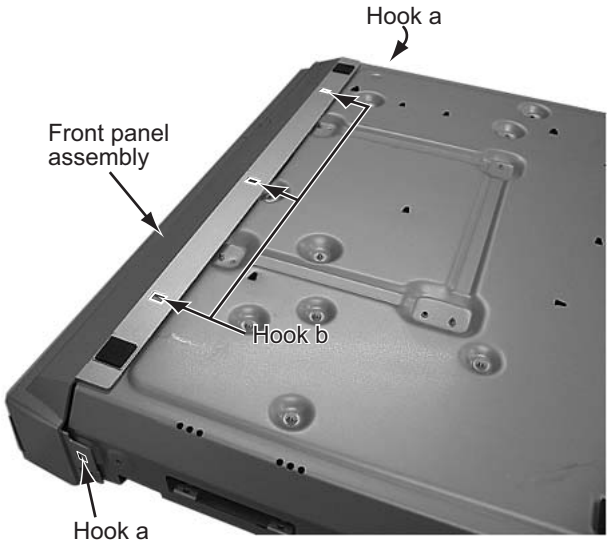


Fig.4

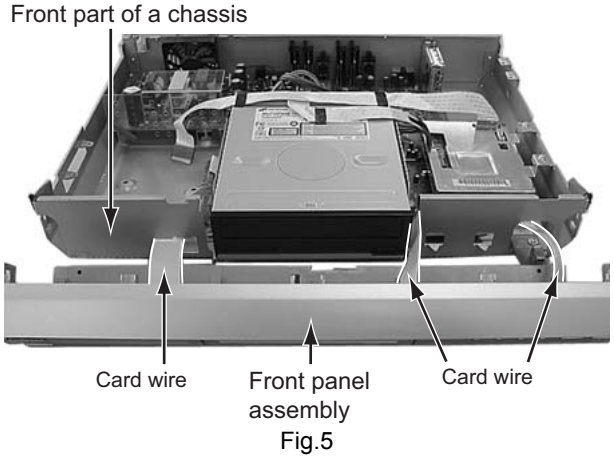


Fig.5

3.1.3 Remove the drive unit (See figure 6)

- Prior to performing the following procedure, remove the top cover.
- There is no need to remove the front panel assembly.
  (1) Disconnect the socket wire from connector CN5303 on the switching regulator board.
  (2) Disconnect the card wire from connector CN2201 on the digital board.
  (3) The tape which is fixing the card wire is removed two places.
  (4) Remove the four screws **D** attaching the drive unit.
  (5) Remove the one screw **E** attaching the lug wire.

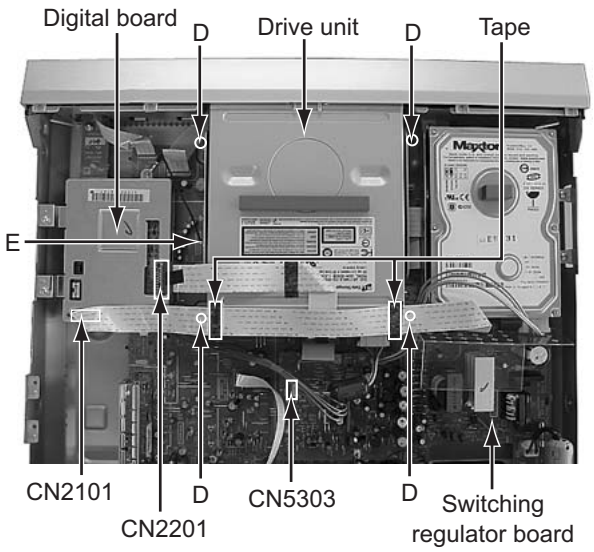


Fig.6

3.1.4 Remove the digital board (See figure 7, figure 8)

- Prior to performing the following procedure, remove the top cover.
  (1) Disconnect the card wire from connector CN2201, CN2101 on the digital board.
  (2) Disconnect the socket wire from connector CN1003 on the digital board.
  (3) Remove the four screws **F** attaching the digital board.
  (4) Lift the digital board up, and remove it. Then, the digital board is removed from the connectors CN4101, CN4102 on the main board and CN4104 on the jack board. In attaching the digital board, insert the connector on the digital board in these connectors securely.

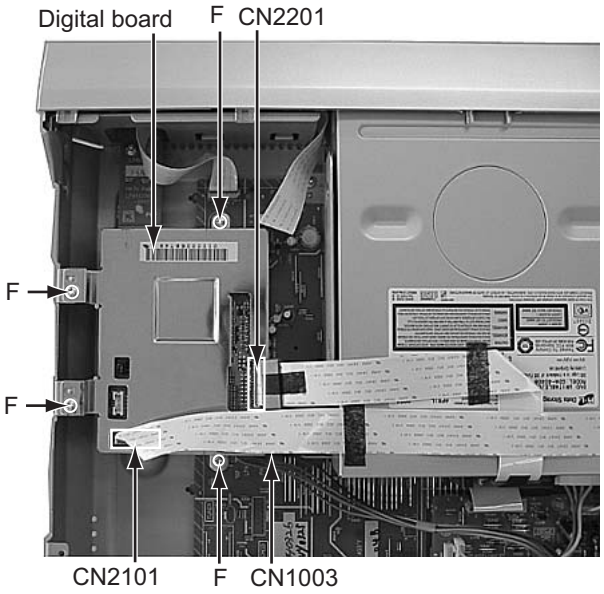


Fig.7

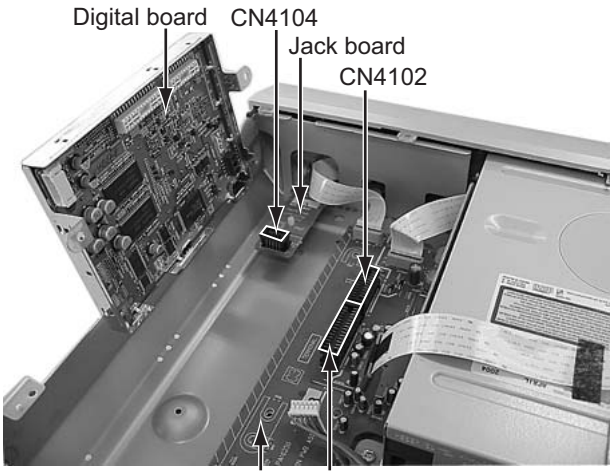


Fig.8

3.1.5 Remove the switching regulator board (See figure 9)

- Prior to performing the following procedure, remove the top cover.
  (1) Disconnect the card wire from connector CN5301 on the switching regulator board.
  (2) Disconnect the socket wire from connector CN5303, CN5305, CN5306, CN5307 on the switching regulator board.
  (3) Disconnect the power cord from connector CN5001 on the switching regulator board.
  (4) Remove the two screws **G** attaching the switching regulator board.
  (5) Four spacers are removed.

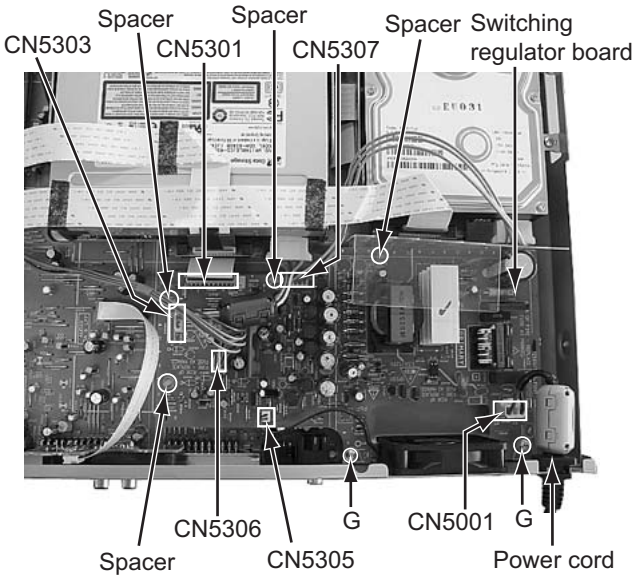


Fig.9

3.1.6 Remove the main board (See figure 10, figure 11)

- Prior to performing the following procedure, remove the top cover, drive unit, digital board, switching regulator board, HDD.
  (1) Disconnect the card wire from connector CN3001, CN3002, CN4001, CN7301 on the main board
  (2) Remove the two screws **H** attaching the main board.
  (3) Remove the seven screws **I** attaching the rear panel with main board.

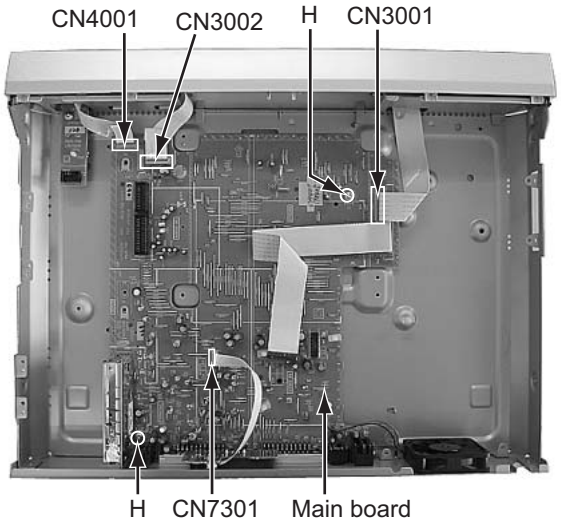


Fig.10

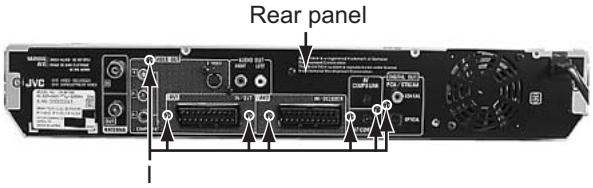


Fig.11

SECTION 4
ADJUSTMENT

4.1 Timer clock adjustment (for only ver.UJ,TW)

If an error comes to arise for a clock, the following procedure will adjust.

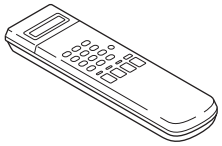
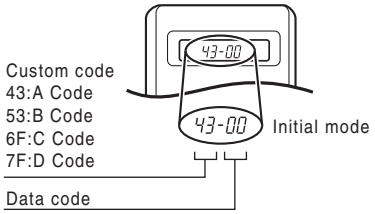
Signal	(A1)	No signal
Mode	(B)	EE
Equipment	(C)	Frequency counter
Measuring point	(D1) (D2) (D3)	IC3001 pin 61 IC3001 pin 17 C3026 + and -
Adjustment part	(F)	C3025 (TIMER CLOCK)
Specified value	(G1)	1024.008 ±0.001 Hz (976.5549 ±0.0010 usec)

(1) Connect the frequency counter to the measuring point (D1).
(2) Connect the short wire between the short point (D2) and Vcc (5V).
(3) Short the leads of capacitor (D3) once in order to reset the microprocessor of the system controller.
(4) Disconnect the short wire between the short point (D2) and Vcc then connect it again.
(5) Adjust the Adjustment part (F) so that the output frequency becomes the specified value (G).

SECTION 5
TROUBLESHOOTING

5.1 JIG Mode

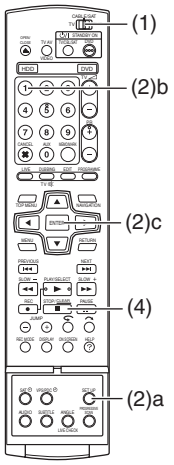
The following remote control units are required to set and cancel JIG mode.
For setting : a remote control unit attached to product.
For cancellation : JIG remote control unit (part number : PTU94023B)

Remote control unit attached to product	JIG remote control unit
	 JIG remote control unit [Data transmission] Set the data code, and then press the ") " 3 button. 

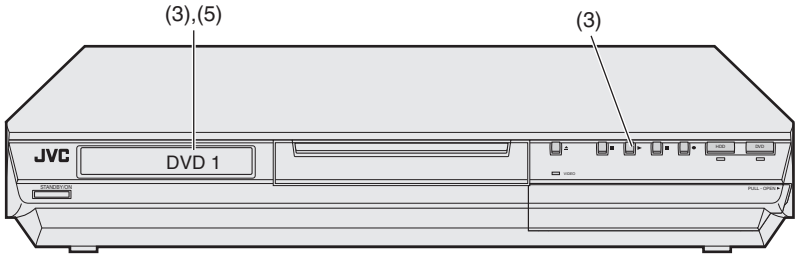
When the main body is set to JIG mode and when the main body is under JIG mode, the remote control unit attached to product operates only in "Remote Control Code 1". Since main body is in "Remote Control Code 3" when it is shipped and just after its batteries are changed, "Remote Control Code 3" needs to be changed to "Remote Control Code 1."

< Changing Remote Control Code >

(1) Switch TV/CABLE/SAT/DVD Switch to "DVD"
(2) Press the numeric button "1" of the remote control unit while pressing the "SET UP" button of the remote control unit. Then, press the "ENTER" button, and then release the "SET UP" button.
(3) Press the "PLAY" button of the main body for five seconds or longer while the main body is in stand-by mode, and a current remote control code of the main body is displayed in FL indicator of the main body.
(4) While keeping the state of (3), press the "STOP" button of the remote control unit toward the main body.
(5) The code that was set by the remote control unit blinks for 5 seconds, before the code is set to the main body. When the FL indicator changes to “DVD 1”, it shows that the Remote Control Code has been changed to “1”.



"(2) a-c" shows the order of pressing the buttons.



5.1.1 Setting JIG mode

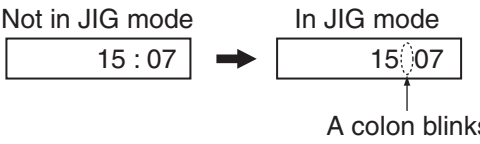
To display SYSTEM INFO or to update firmware, the main body needs to be set to JIG mode.

(1) Turn the main body ON.

(2) Press the buttons of the remote control unit attached to product in the following order : "SET UP" → "2" → "8" → "ENTER"

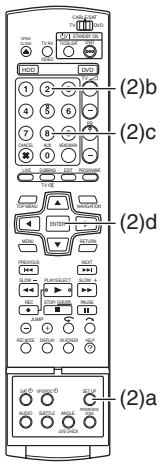
(3) When a colon ":" between "hour" and "minute" of a clock in FL indicator blink, it means that the main body has been set to JIG mode properly.

[Example]

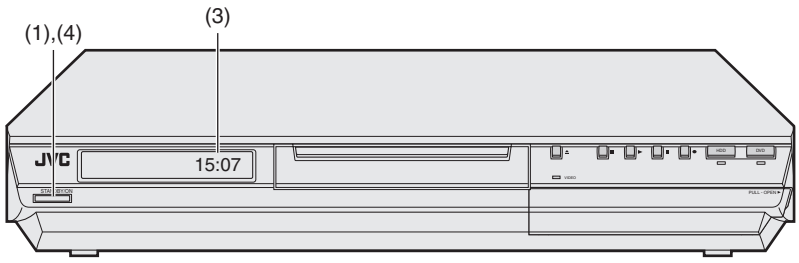


(4) Turn the main body OFF, and then turn it ON again.

*Once the main body is set to JIG mode, the JIG mode cannot be cancelled even if the power cord is pulled out from the wall socket.



"(2) a-d" shows the order of pressing the buttons.



5.1.2 Canceling JIG mode

(1) Transmit "43-9D" to the main body by using JIG remote control unit.

(2) A colon ":" between "hour" and "minute" of a clock in FL indicator light.

(3) Turn the main body OFF, and then turn it ON again.

NOTE:

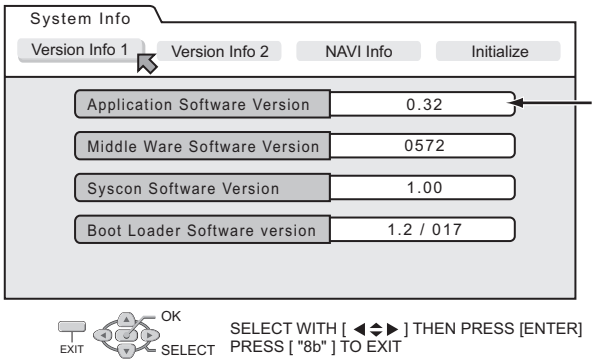
After repair work, be sure to cancel JIG mode. Before returning product to a user, confirm that a colon ":" between "hour" and "minute" of a clock in FL indicator light.

5.2 Displaying SYSTEM INFO

In the SYSTEM INFO there is information including Firmware Versions of the main body and the drive unit.

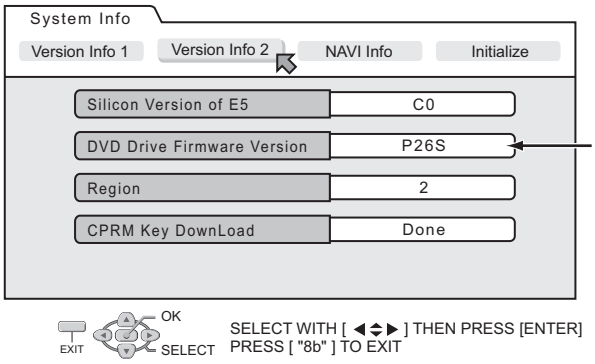
(1) Set the main body to JIG mode.
(2) Transmit "43-8B" to the main body by using JIG remote control unit.
(3) SYSTEM INFO menu is displayed in the television screen.
(4) To move cursor in SYSTEM INFO, use the "▲", "▼", "◀ ", and " ▶" buttons of a remote control unit attached to product.

The example of a display **< Version Info 1 >**



Firmware Version of the main body
When the Firmware of the main body is updated, this part is changed.

The example of a display **< Version Info 2 >**



Firmware Version of the Drive unit
When the Firmware of the drive unit is updated, this part is changed.

NOTE :
Items other than the ones described above are not used in service work.

(5) To quit the SYSTEM INFO menu, transmit "43-8B" to the main body by using JIG remote control unit.
(6) Cancel JIG mode.

5.3 Updating the firmware of the main body

- Firmware update disc supports CD-R media.
- When firmware update is necessary, information is available from the homepage of DIGITAL VIDEO STORAGE CATEGORY, CS group.

5.3.1 Creating an update disc

Please check the details of the update disc creation method by JS-NET.

(1) Down load the update file from JS-NET. The file name is “hdd_u.udx”.

(2) Write the update file into CD-R. Pay attention in the following points when writing the update disc.

- Make sure to write in “Disc at Once”.
- Set the file compatibility to “ISO9660 format”. (ROMEO, JOLIET are disapproved.)
  If the writing method is not correct, the update results in an error.

5.3.2 Update procedure

- There are two methods of updating firmware, using JIG mode <method 1> or not using JIG mode(User update mode) <method 2>. Updating can be operated in either method.

<Method 1>

(1) Set to the JIG mode.

(2) Load the update disc on the tray, and then close the tray.

(3) When the disc reading operation is completed, transmit “43-70” with the JIG remote control unit.
If the update disc is not correct, FL indicator displays an “ERROR” after transmitting “43-70”. Transmit “43-70” once and make the FL indicator to normal display, and then reload the disc then transmit “43-70” again.

(4) “UPDATE” is displayed in the FL indicator, and the FL indicator changes to “FL UPDATE” afterwards. It takes approx. 2 minutes for the change.

(5) Remove the disc as the tray is ejected, and then transmit “43-70” with the JIG remote control unit. Then the FL indicator changes from “UPDATE” to the normal display.

(6) Close the tray and turn the main body OFF. Pull out the power code from the wall socket, then plug the power cord into the wall socket again.

(7) When “LOADING” in the FL indicator disappears, turn the main body ON.

(8) Display the SYSTEM INFO menu, and check the version of the firmware.

(9) Cancel the JIG mode.

<Method 2>

(1) Turn the power ON. Load the update disc on the tray and close the tray.

(2) When the disc reading operation is completed, turn the power OFF.

(3) Keep pressing the “PAUSE” button and the “POWER” button at the same time. (Until FL indicator changes to “UPDATE”).

(4) In approx. 2 minutes the tray is ejected. Remove the disc and close the tray.

(5) Reset operation is carried out automatically, and it becomes standby condition.

(6) Then, display the SYSTEM INFO menu in the JIG mode and check the version.

5.4 Updating the firmware of the drive unit

- Firmware update disc supports only DVD-RAM media.
- When firmware update is necessary, written discs are distributed by DIGITAL VIDEO STORAGE CATEGORY, CS group.
  (1) Turn the main body ON.
  (2) Load the update DVD-RAM disc on the tray and close the tray.
  (3) “READING” is displayed in the FL indicator and the update is started.
  (4) In a short while “READING” in the FL indicator disappears, open the tray to remove the disc and close the tray.
  (5) Turn the power OFF and pull out the power code from the wall socket, then plug the power cord into the wall socket again.
  (6) Set to the JIG mode and check the firmware version of the drive.

5.5 Taking out a disc

<Method 1 >

There is a forced tray eject mode with electrical operation.

(1) Right after plugging in the power code (while “LOADING” is displayed), keep pressing the OPEN/CLOSE button of the main body.
(2) Remove the disc as the tray is ejected in a short while.
(3) Make sure to close the tray afterwards.

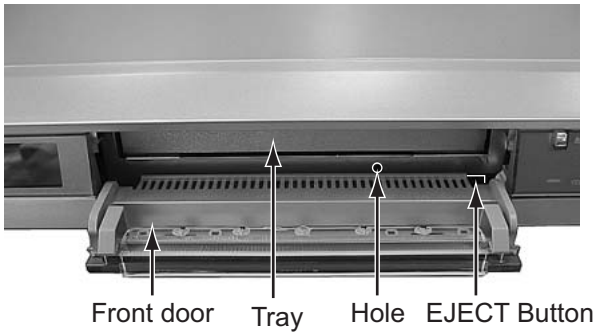
<Method 2 >

When the disc cannot be removed by operating above <Method 1 >, open the front door of the main body manually and directly press the EJECT button located in the lower right of the drive unit.

<Method 3 >

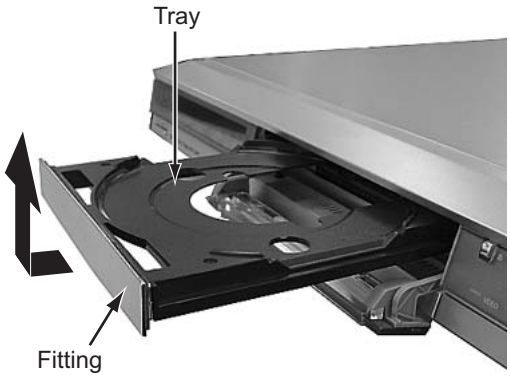
When neither <Method 1> nor <Method 2> can remove the disc, the tray can be ejected mechanically without turning the power on.

(1) Open the front door of the main body manually.
(2) Insert a fine wire (e.g. a straightened paper clip) into the hole in the lower part of the tray of the drive unit.
(3) As the tray ejects a little, pull out the tray manually.



5.6 Exchanging the fitting

As the fitting that comes with the service drive unit cannot be used, make sure to attach a service fitting when the drive unit is exchanged. The fitting that is removed from the old drive unit can be attached to the new drive unit.
The fitting can be removed by pulling upwards while opening out the lower part of the fitting outwards.



5.7 Initialization to the factory shipment state

When the initialization is operated, internal information changes as follows. It is essential to obtain the client's permission before the operation.

- All DVD library is all deleted.
- All the DVD initial settings go back to the initial status.
  (1) Set to the JIG mode.
  (2) Transmit "43-6F" with the JIG remote control unit.
  (3) FL indicator displays "FACTORY", and changes to "CHECK OK" after blinking for a short while.
  (4) Pull out the power code from the wall socket.
  (5) The JIG mode is forced to cancel at the same time with the initialization, check whether the JIG mode is canceled by plugging the power code into the wall socket again. (The colon ":" in time display should be continuously ON, not blinking.)
  If the JIG mode is not canceled, transmit "43-9D" with JIG remote control unit to cancel the JIG mode.

5.8 Setting after the drive unit replacement

When the drive unit is replaced, it is necessary to set a region code. Service drive units for replacement are not set for any region code, and they are in an indefinite condition.
Make sure to set region code after attaching the drive unit to the main body.
Without the setting of the region code, discs that have regions cannot be played back.

5.8.1 Creating a region setting disc.

Please check the details of the region setting disc creation method by JS-NET.

(1) Download the region setting file from JS-NET. The file name is "region.bin".
(2) Write the region setting file into CD-R. Pay attention in the following points when writing the file into CD-R.
  - Make sure to write in "Disc at Once".
  - Set the file compatibility to "ISO9660 format". (ROMEO, JOLIET are disapproved).
    If the writing method is not correct, the normal setting cannot be performed.

5.8.2 Setting the region

(1) Set for the JIG mode.
(2) Load the region setting disc on the tray, and then close the tray.
(3) When the disc reading operation is completed, transmit "43-70" with the JIG remote control unit.
(4) FL indicator changes to "UPDATE". Remove the disc as the tray will open for a few seconds.
(5) Then, check whether the FL indicator is "REGION 2".
(6) Transmit "43-70" with the JIG remote control unit. When FL indicator changes to "OPEN", close the tray.
(7) Turn the power OFF, and pull out the power code, and then plug the power code in again.
(8) Cancel the JIG mode.

JVC
Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY DIGITAL VIDEO STORAGE CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.YD026)

Printed in Japan
WPC

JVC

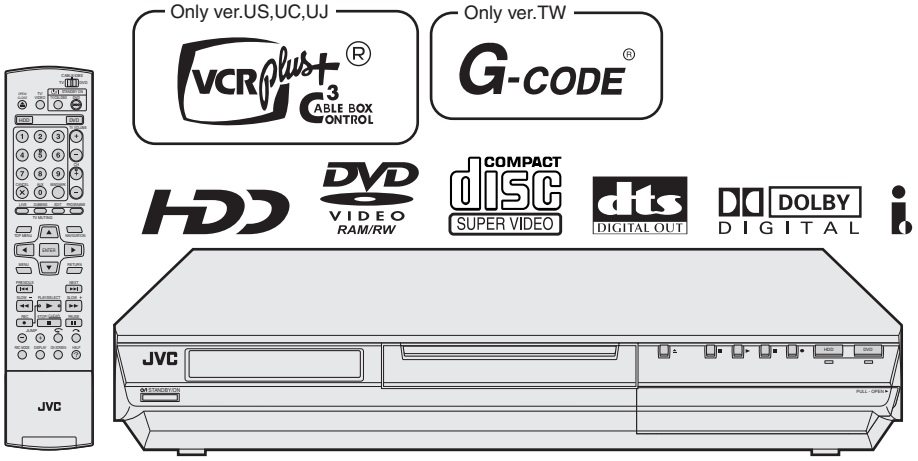
SCHEMATIC DIAGRAMS

DVD & HDD VIDEO RECORDER

DR-MH20SUC, DR-MH20SUJ, DR-MH30SUS, DR-MH30SUC DR-MH30SUJ, DR-MH30STW

CD-ROM No.SML200410

Area Suffix	
US	U.S.A.
UC	Canada
UJ	U.S.A. Militaly
TW	Taiwan



DR-MH20SUC, DR-MH20SUJ [D4HR20]
DR-MH30SUS, DR-MH30SUC, DR-MH30SUJ, DR-MH30STW [D4HR25]

Since the whole mechanism assembly unit is replaced, the DVD recorder mechanism of this unit need not be adjusted.

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No.YD026SCH
2004/10

CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

Safety precautions
The Components indentified by the symbol ⚠ are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.

1. Units of components on the schematic diagram

Unless otherwise specified.

1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K: KΩ(1000Ω), M: MΩ (1000KΩ)
2) All capacitance values are in μF, (P: PF).
3) All inductance values are in μH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

Note: The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

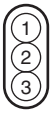
2. Indications of control voltage

AUX : Active at high.

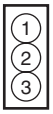
$\overline{\text{AUX}}$ or AUX(L) : Active at low.

3. Interpreting Connector indications

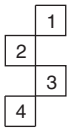
Removable connector



Wire soldered directly on board



Non-removable Board connector



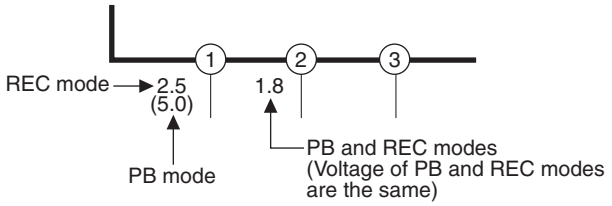
Board to Board

Connected pattern on board
The arrows indicate signal path

Note: For the destination of each signal and further line connections that are cut off from the diagram, refer to "BOARD INTERCONNECTIONS"

4. Voltage measurement

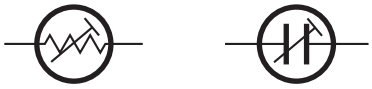
1) Regulator (DC/DC CONV) circuits
   REC : Colour bar signal.
   PB : Alignment tape (Colour bar).
   — : Unmeasurable or unnecessary to measure.
2) Indication on schematic diagram
   Voltage indications for REC and PB mode on the schematic diagram are as shown below.



Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

6. Indication of the parts for adjustments

The parts for the adjustments are surrounded with the circle as shown below.



7. Indication of the parts not mounted on the circuit board

"OPEN" is indicated by the parts not mounted on the circuit board.

CIRCUIT BOARD NOTES

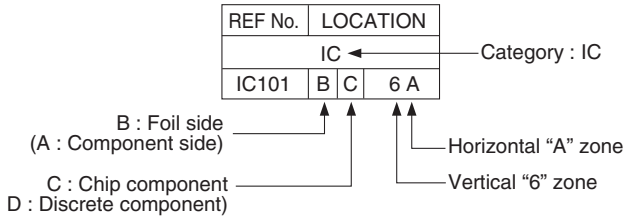
1. Foil and Component sides

1) Foil side (B side) :
   Parts on the foil side seen from foil face (pattern face) are indicated.
2) Component side (A side) :
   Parts on the component side seen from component face (parts face) indicated.

rts location are indicated by guide scale on the circuit board.

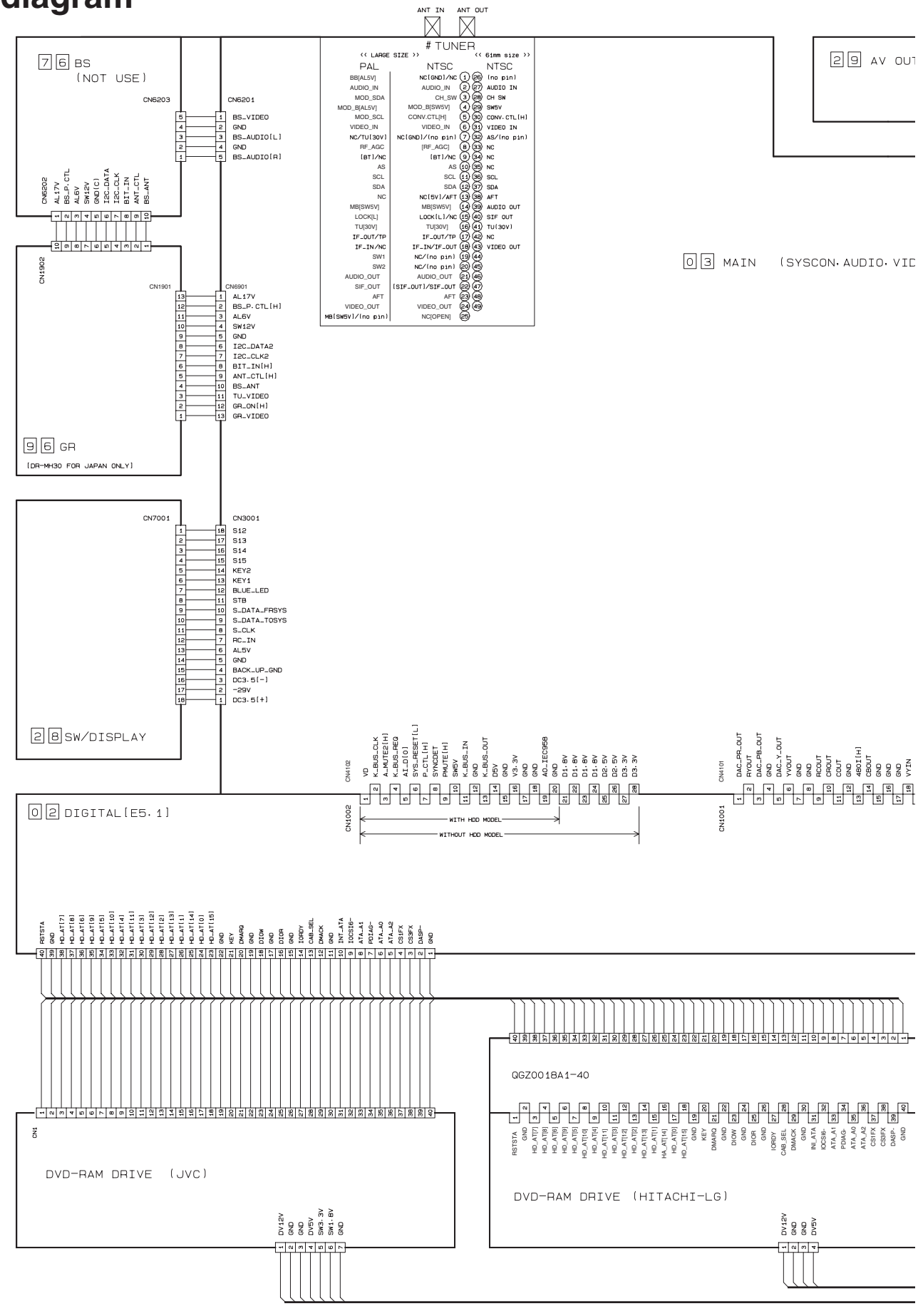
2. Parts location guides

Parts location are indicated by guide scale on the circuit board.

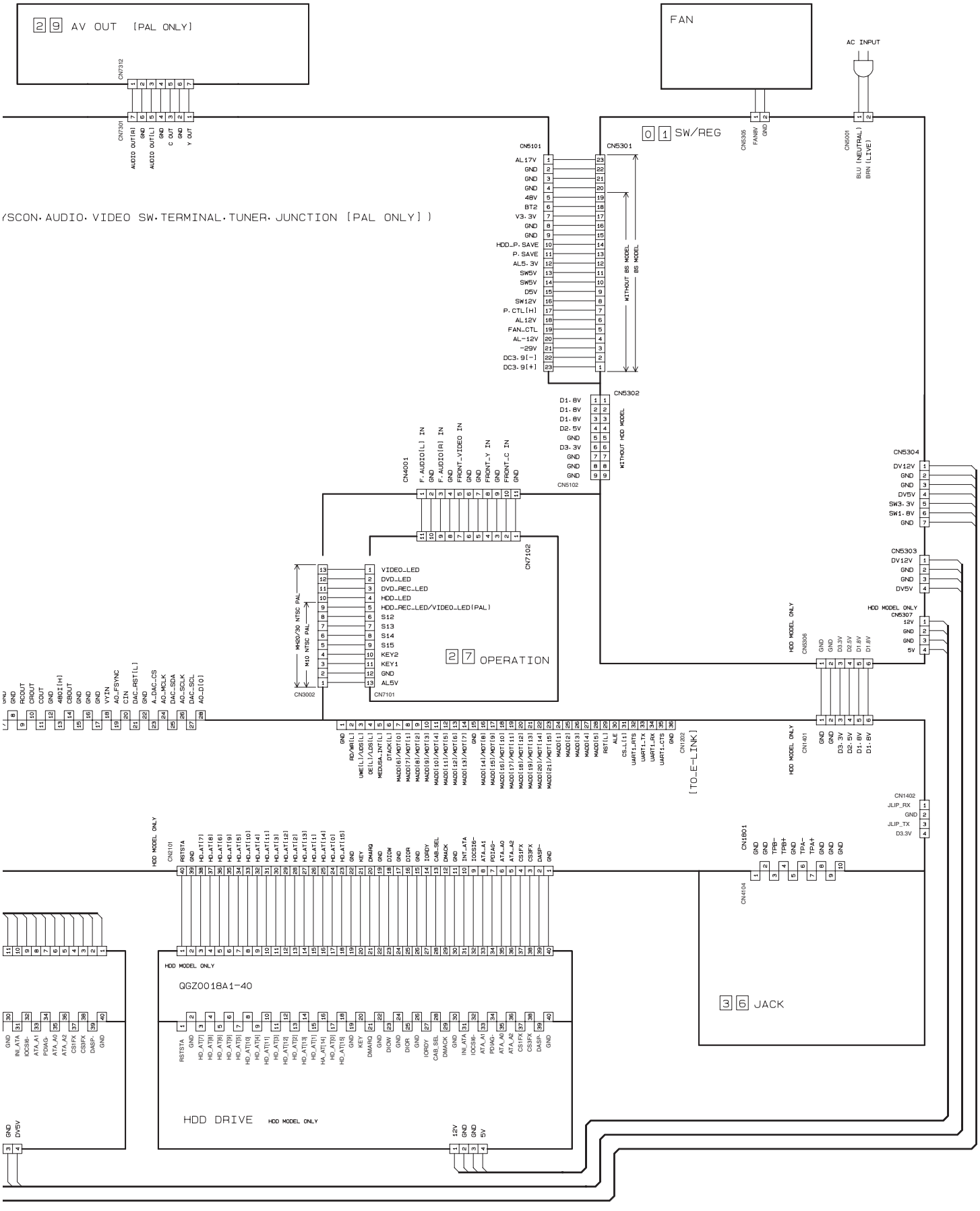


Note: For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).

Wiring diagram



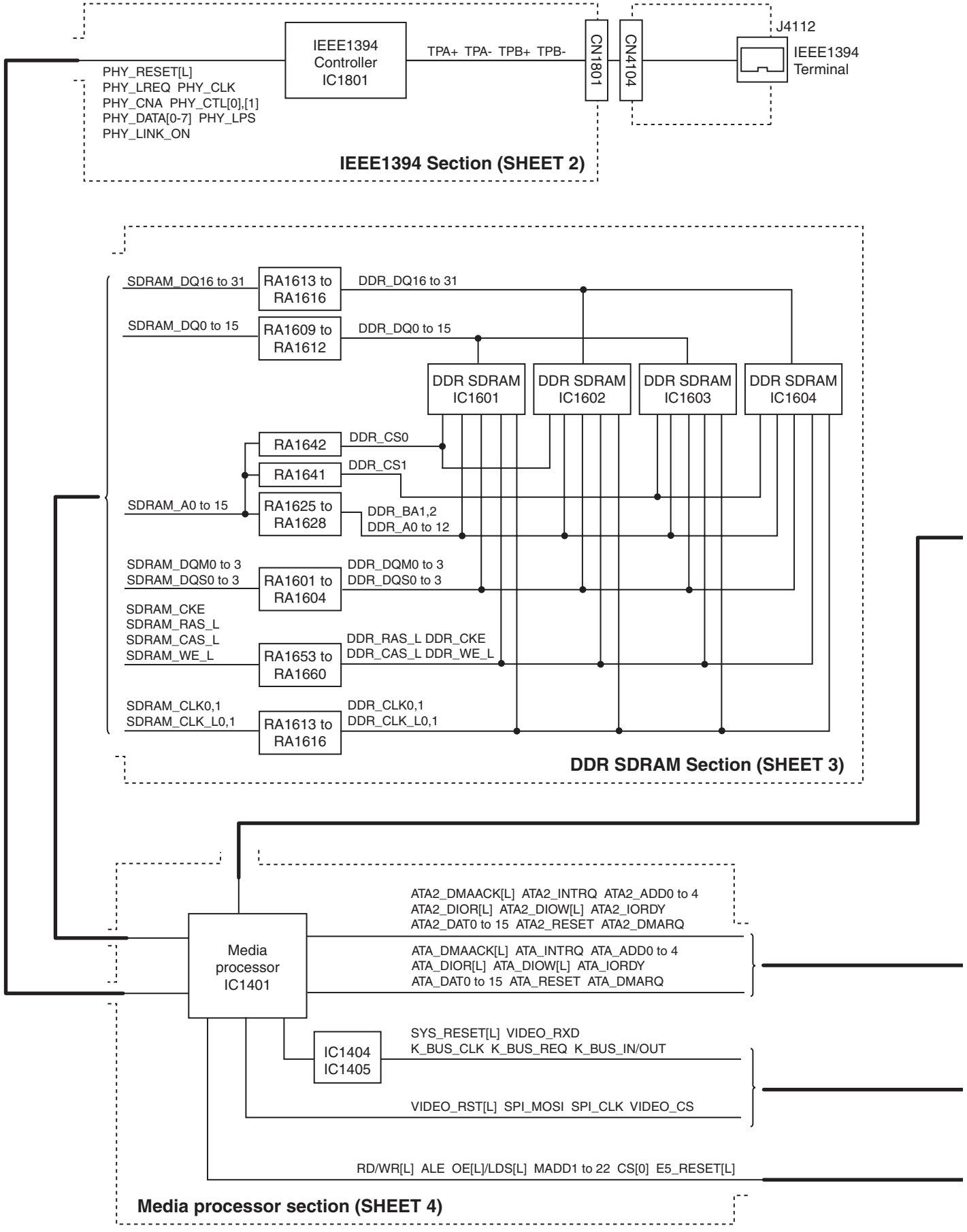
NO	NAME
9 6	GR
7 6	BS
3 6	JACK
2 9	AV OUT
2 8	SW/DISPLAY
2 7	OPERATION
0 3	MAIN
0 2	DIGITAL
0 1	SW/REG

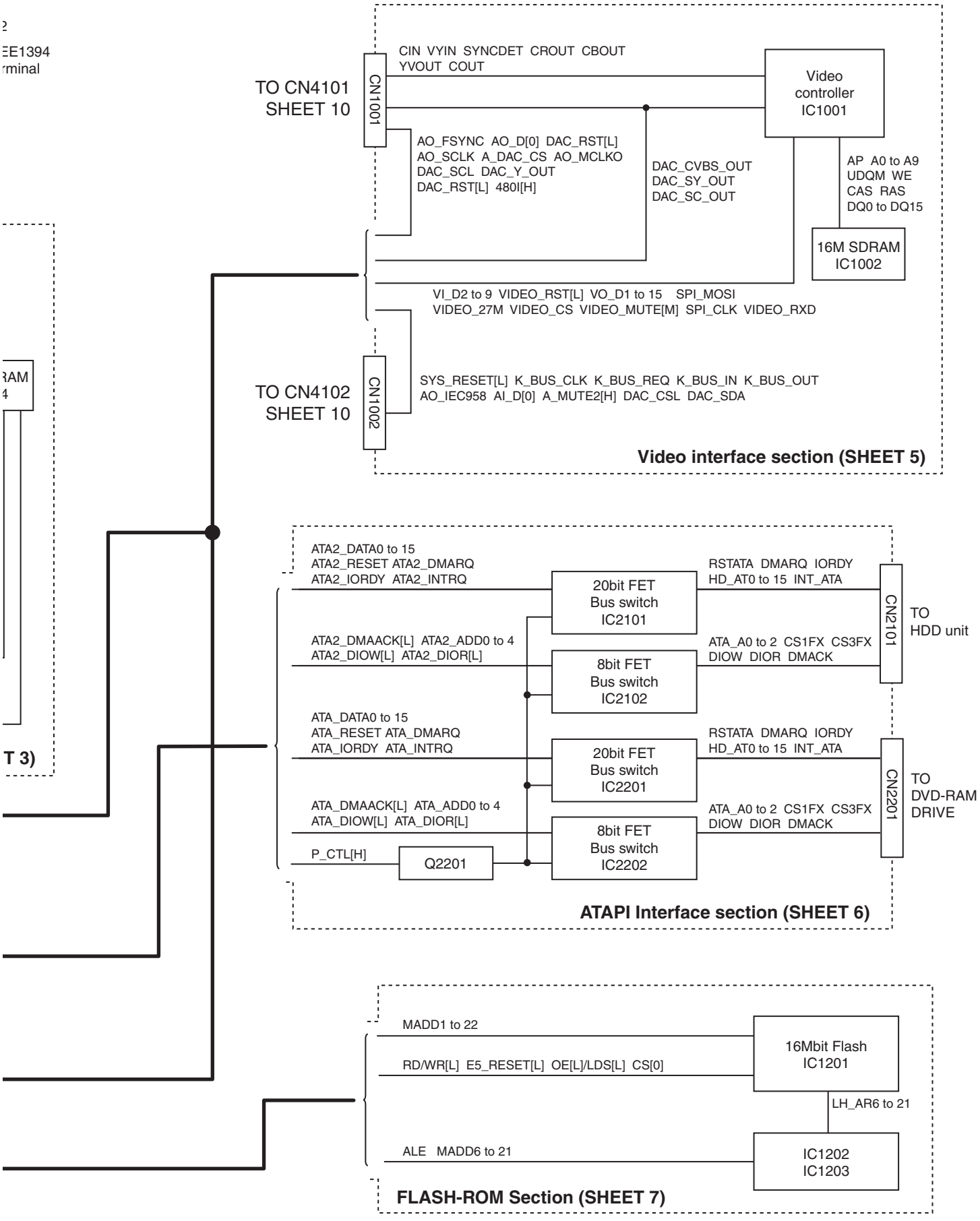


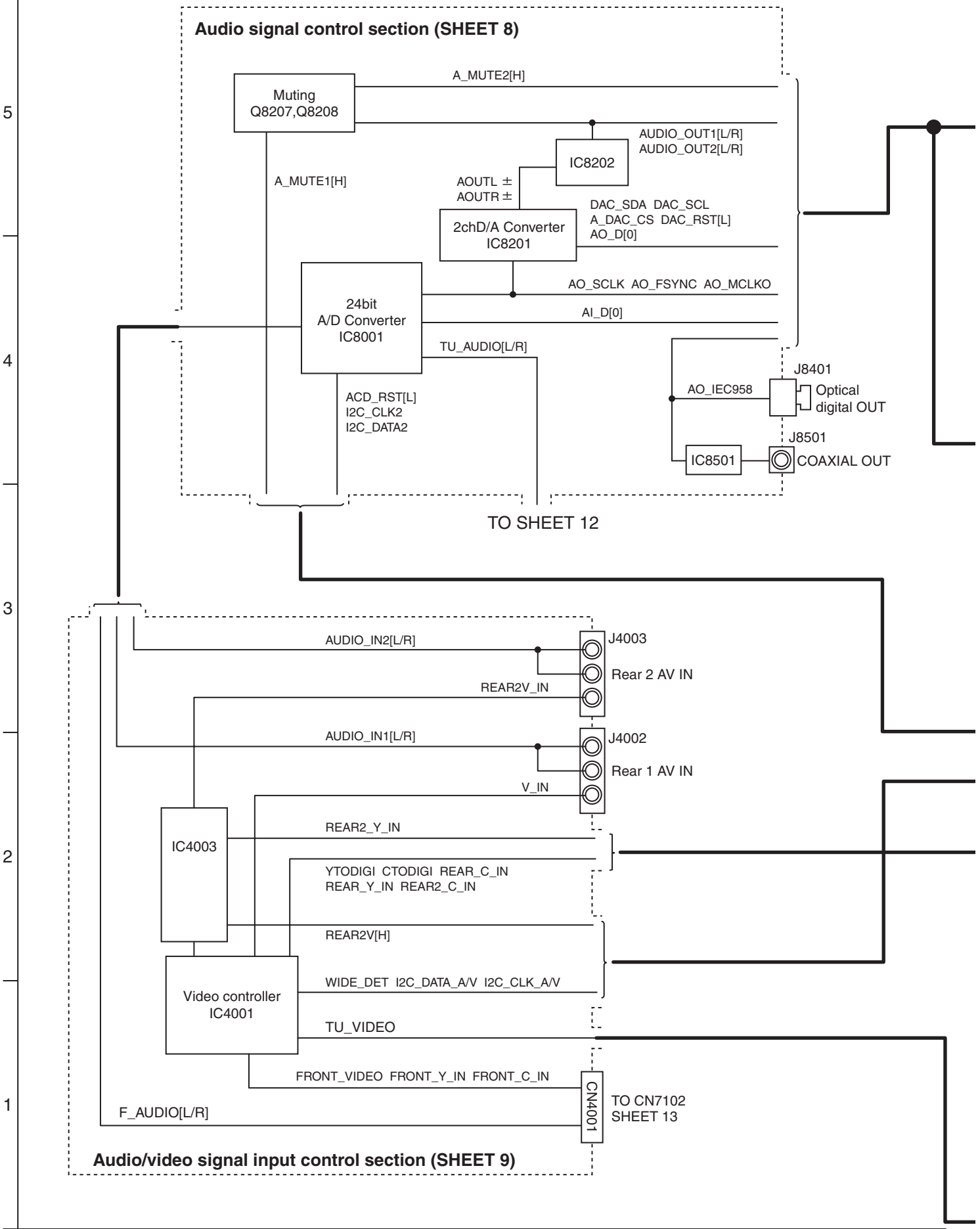
p10596001a_rev0

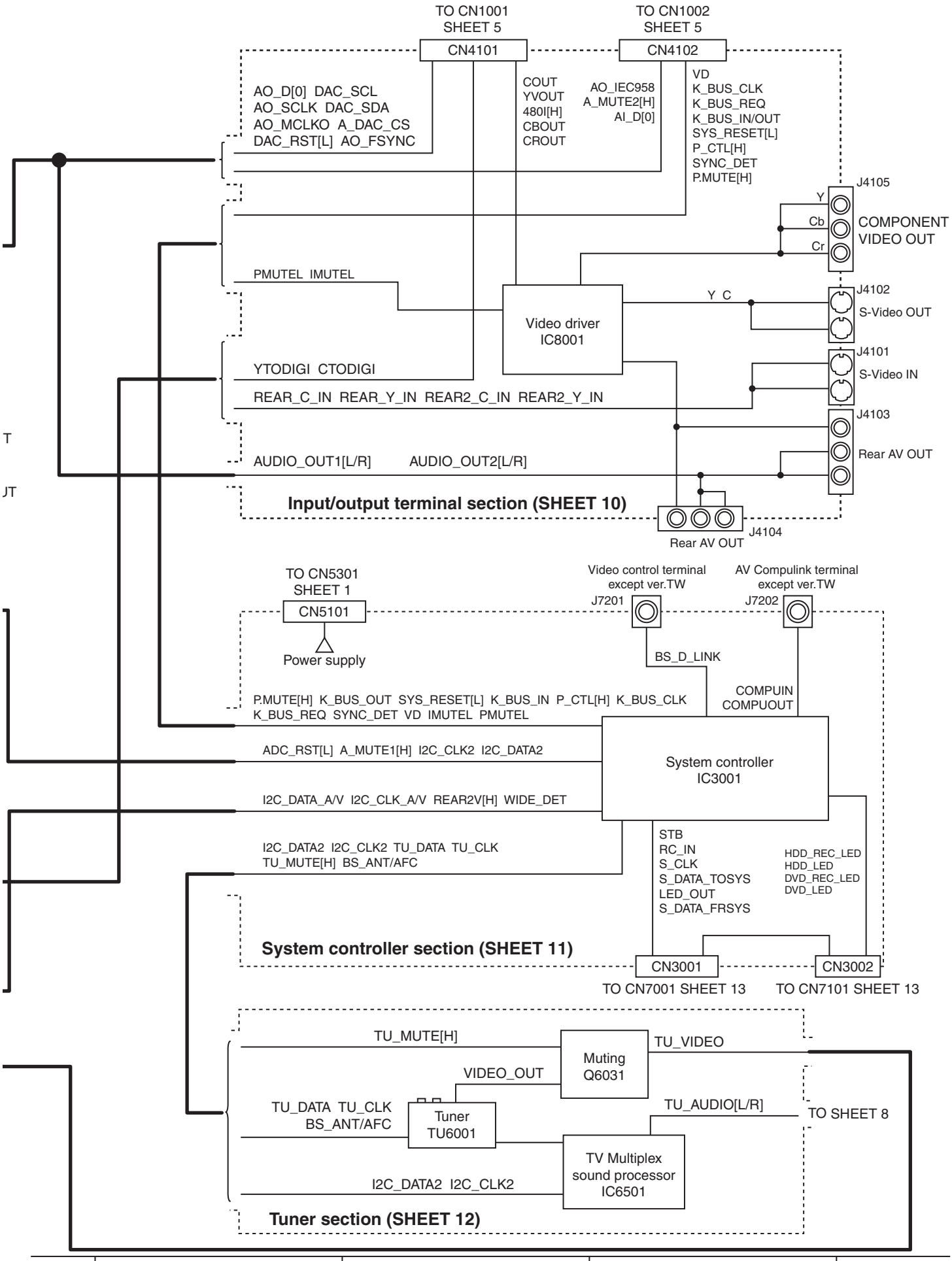
Block diagrams

■ DIGITAL 02

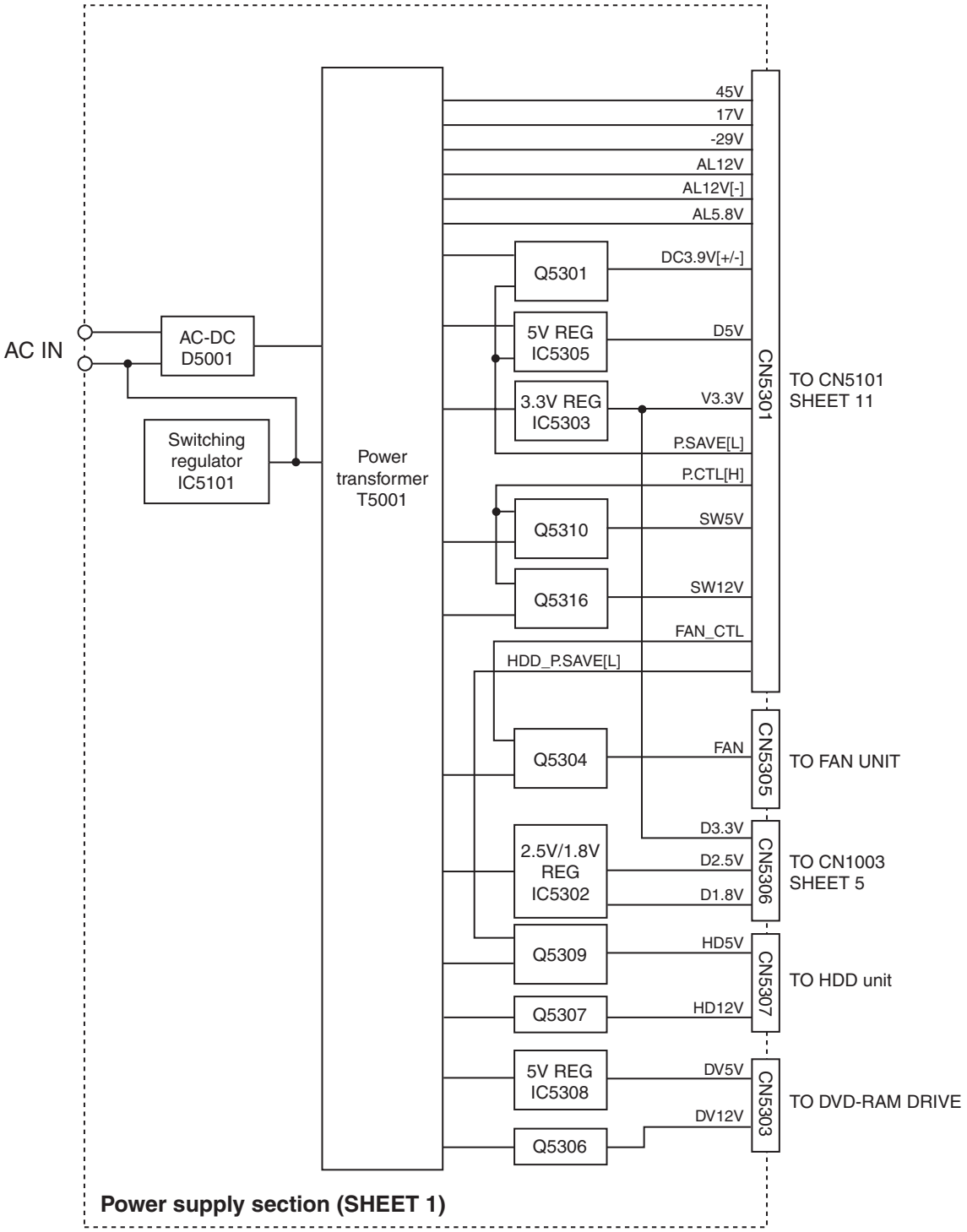



TO CN4101
SHEET 10
CN1001
CIN VYIN SYNCDET CROUT CBOUT
YVOUT COUT
Video
controller
IC1001
AO_FSYNC AO_D[0] DAC_RST[L]
AO_SCLK A_DAC_CS AO_MCLKO
DAC_SCL DAC_Y_OUT
DAC_RST[L] 480I[H]
DAC_CVBS_OUT
DAC_SY_OUT
DAC_SC_OUT
AP A0 to A9
UDQM WE
CAS RAS
DQ0 to DQ15
16M SDRAM
IC1002
VI_D2 to 9 VIDEO_RST[L] VO_D1 to 15 SPI_MOSI
VIDEO_27M VIDEO_CS VIDEO_MUTE[M] SPI_CLK VIDEO_RXD
TO CN4102
SHEET 10
CN1002
SYS_RESET[L] K_BUS_CLK K_BUS_REQ K_BUS_IN K_BUS_OUT
AO_IEC958 AI_D[0] A_MUTE2[H] DAC_CSL DAC_SDA
Video interface section (SHEET 5)
ATA2_DATA0 to 15
ATA2_RESET ATA2_DMARQ
ATA2_IORDY ATA2_INTRQ
20bit FET
Bus switch
IC2101
RSTATA DMARQ IORDY
HD_AT0 to 15 INT_ATA
CN2101
TO
HDD unit
ATA2_DMAACK[L] ATA2_ADD0 to 4
ATA2_DIOW[L] ATA2_DIOR[L]
8bit FET
Bus switch
IC2102
ATA_A0 to 2 CS1FX CS3FX
DIOW DIOR DMACK
ATA_DATA0 to 15
ATA_RESET ATA_DMARQ
ATA_IORDY ATA_INTRQ
20bit FET
Bus switch
IC2201
RSTATA DMARQ IORDY
HD_AT0 to 15 INT_ATA
CN2201
TO
DVD-RAM
DRIVE
ATA_DMAACK[L] ATA_ADD0 to 4
ATA_DIOW[L] ATA_DIOR[L]
8bit FET
Bus switch
IC2202
ATA_A0 to 2 CS1FX CS3FX
DIOW DIOR DMACK
P_CTL[H]
Q2201
ATAPI Interface section (SHEET 6)
MADD1 to 22
16Mbit Flash
IC1201
RD/WR[L] E5_RESET[L] OE[L]/LDS[L] CS[0]
LH_AR6 to 21
ALE MADD6 to 21
IC1202
IC1203
FLASH-ROM Section (SHEET 7)
D
E
F
G


Audio signal control section (SHEET 8)
Muting
Q8207,Q8208
A_MUTE2[H]
A_MUTE1[H]
IC8202
AUDIO_OUT1[L/R]
AUDIO_OUT2[L/R]
AOUTL ±
AOUTR ±
2chD/A Converter
IC8201
DAC_SDA DAC_SCL
A_DAC_CS DAC_RST[L]
AO_D[0]
24bit
A/D Converter
IC8001
AO_SCLK AO_FSYNC AO_MCLKO
AI_D[0]
TU_AUDIO[L/R]
ACD_RST[L]
I2C_CLK2
I2C_DATA2
J8401
AO_IEC958
Optical
digital OUT
J8501
IC8501
COAXIAL OUT
TO SHEET 12
AUDIO_IN2[L/R]
J4003
Rear 2 AV IN
REAR2V_IN
AUDIO_IN1[L/R]
J4002
Rear 1 AV IN
V_IN
IC4003
REAR2_Y_IN
YTODIGI CTODIGI REAR_C_IN
REAR_Y_IN REAR2_C_IN
REAR2V[H]
Video controller
IC4001
WIDE_DET I2C_DATA_A/V I2C_CLK_A/V
TU_VIDEO
FRONT_VIDEO FRONT_Y_IN FRONT_C_IN
CN4001
TO CN7102
SHEET 13
F_AUDIO[L/R]
Audio/video signal input control section (SHEET 9)

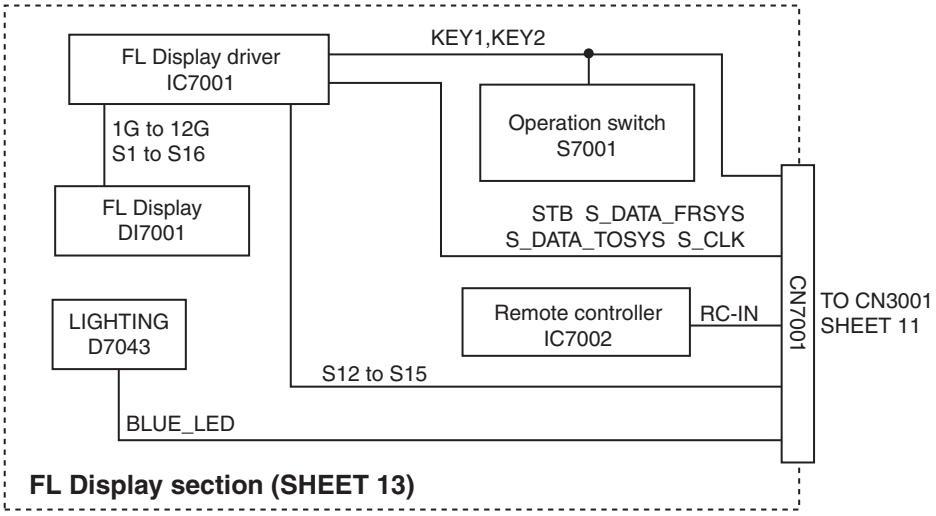

TO CN1001
SHEET 5
TO CN1002
SHEET 5
CN4101
CN4102
AO_D[0] DAC_SCL
AO_SCLK DAC_SDA
AO_MCLKO A_DAC_CS
DAC_RST[L] AO_FSYNC
COUT
YVOUT
480I[H]
CBOUT
CROUT
AO_IEC958
A_MUTE2[H]
AI_D[0]
VD
K_BUS_CLK
K_BUS_REQ
K_BUS_IN/OUT
SYS_RESET[L]
P_CTL[H]
SYNC_DET
P.MUTE[H]
J4105
Y
Cb
Cr
COMPONENT
VIDEO OUT
PMUTEL IMUTEL
Video driver
IC8001
Y C
J4102
S-Video OUT
J4101
S-Video IN
YTODIGI CTODIGI
REAR_C_IN REAR_Y_IN REAR2_C_IN REAR2_Y_IN
J4103
Rear AV OUT
AUDIO_OUT1[L/R]
AUDIO_OUT2[L/R]
Input/output terminal section (SHEET 10)
J4104
Rear AV OUT
TO CN5301
SHEET 1
CN5101
Power supply
Video control terminal
except ver.TW
J7201
AV Compulink terminal
except ver.TW
J7202
BS_D_LINK
COMPUIN
COMPUOUT
P.MUTE[H] K_BUS_OUT SYS_RESET[L] K_BUS_IN P_CTL[H] K_BUS_CLK
K_BUS_REQ SYNC_DET VD IMUTEL PMUTEL
ADC_RST[L] A_MUTE1[H] I2C_CLK2 I2C_DATA2
System controller
IC3001
I2C_DATA_A/V I2C_CLK_A/V REAR2V[H] WIDE_DET
I2C_DATA2 I2C_CLK2 TU_DATA TU_CLK
TU_MUTE[H] BS_ANT/AFC
STB
RC_IN
S_CLK
S_DATA_TOSYS
LED_OUT
S_DATA_FRSYS
HDD_REC_LED
HDD_LED
DVD_REC_LED
DVD_LED
System controller section (SHEET 11)
CN3001
CN3002
TO CN7001 SHEET 13
TO CN7101 SHEET 13
TU_MUTE[H]
Muting
Q6031
TU_VIDEO
VIDEO_OUT
TU_DATA TU_CLK
BS_ANT/AFC
Tuner
TU6001
TU_AUDIO[L/R]
TO SHEET 8
TV Multiplex
sound processor
IC6501
I2C_DATA2 I2C_CLK2
Tuner section (SHEET 12)
T
JT
D
E
F
G

■ SW.REG 0 1

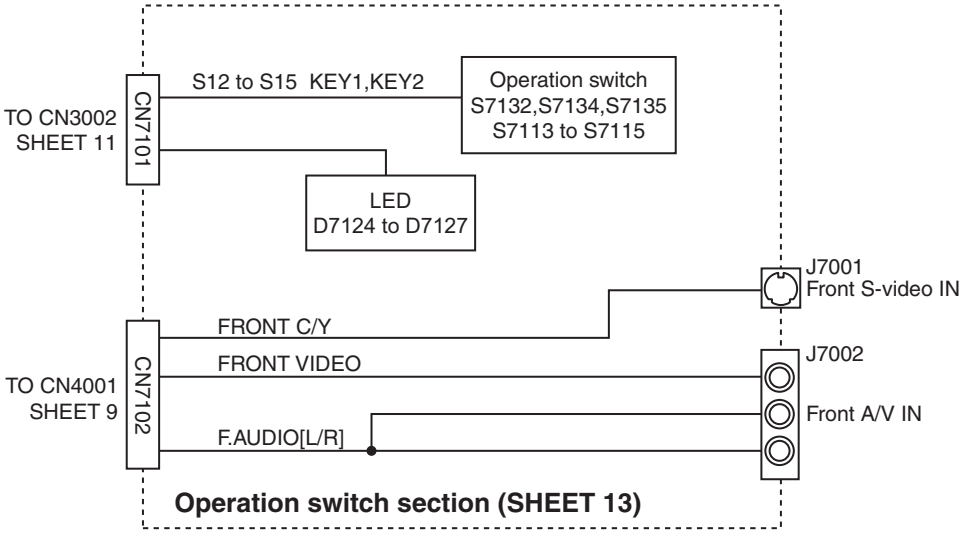


Power supply section (SHEET 1)

■ SW/DISPLAY 2 8

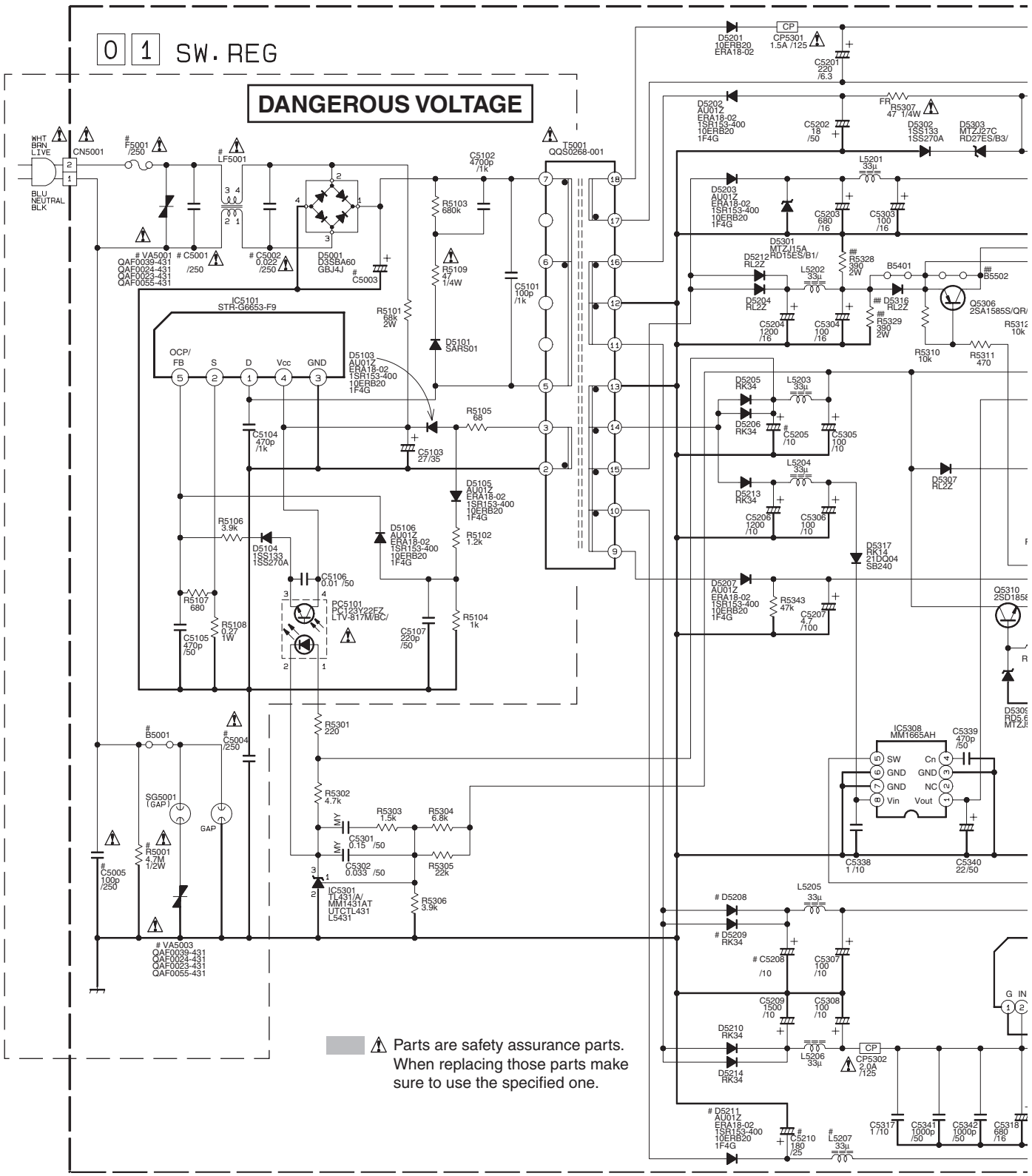


■ OPERATE 2 7



Standard schematic diagrams

■ Power supply section



##MARK ELEMENTS ARE NOT MOUNTED.

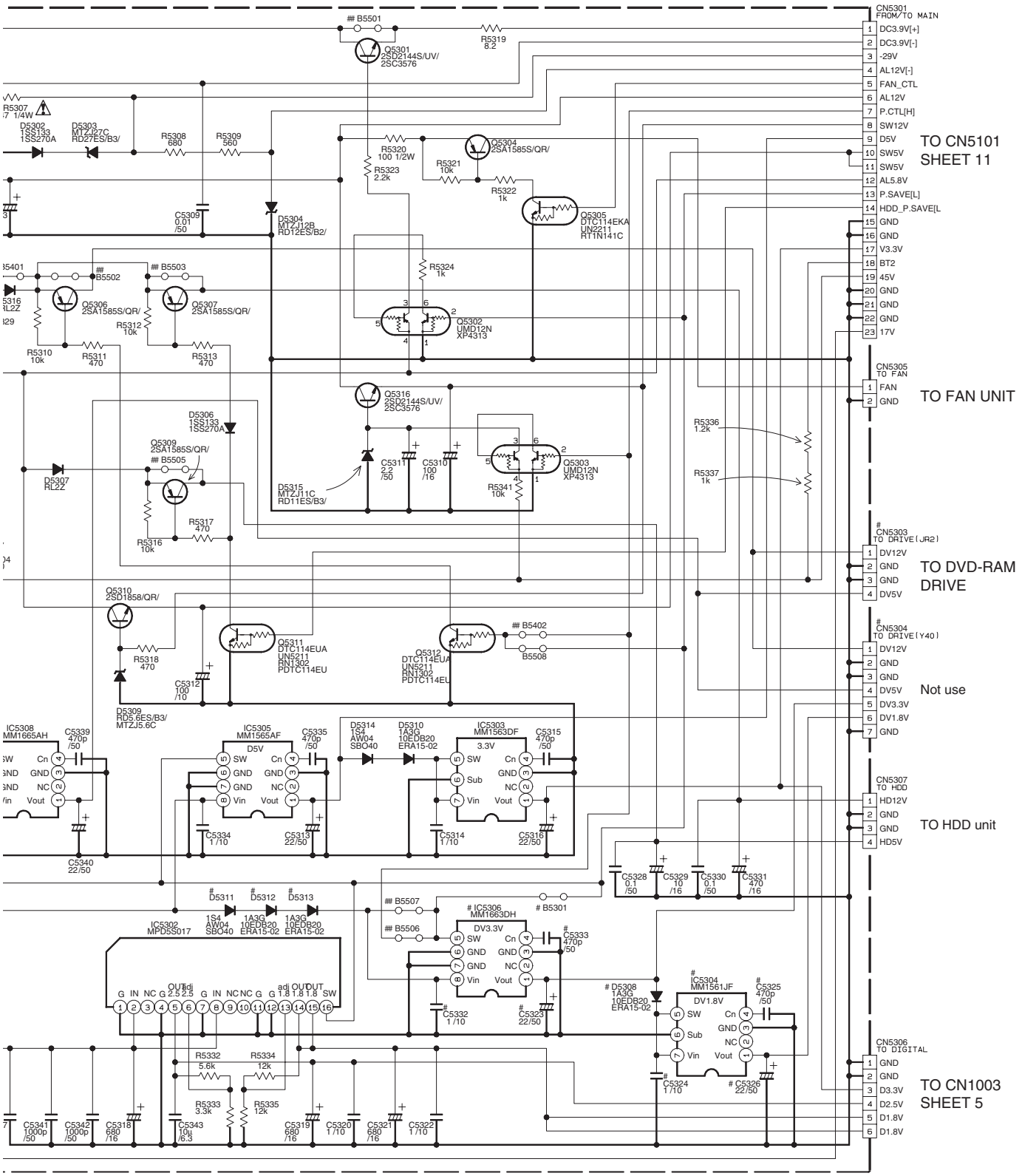
#DIFFERENCE TABLE 1

	B5301 C5326 D5308 IC5304 C5323 C5332 D5311 IC5306 C5324 C5333 D5312 C5325 D5209 D5313	CN5303	CN5304	C5208	D5208
Y40 DRIVE	YES	NO	YES	1200	RK34
JR2 DRIVE	NO	YES	NO	1000	RK14 21DQ04 SB240

#DIFFERENCE TABL

	B5001
JPN	YES
US	
AUTO NTSC	NO
AUTO PAL	
EURO	

* Refer to the "JR2 DRIVE" column of a table for this model.



#DIFFERENCE TABLE 2

	B5001	C5001	C5002	C5003	C5004	C5005	F5001	R5001	LF5001	VA5001	VA5003
JPN	YES	0.047	NO	330 /200	4700p	YES	1.6A	NO	GQR0908-001 GQR0984-001 GQR1215-001	YES	YES
US								YES			
AUTO NTSC	NO	0.068	YES	100 /400	2200p	NO	T2AL	NO	GQR1031-001	NO	NO
AUTO PAL											
EURO											

	D5208
	RK34
	RK14 21DQ04 SB240

#DIFFERENCE TABLE 3

GR	C5205
W/O	1500
WITH	2700

#DIFFERENCE TABLE 4

BS	C5210 D5211 L5207
W/O	NO
WITH	YES

NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
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NON POLAR

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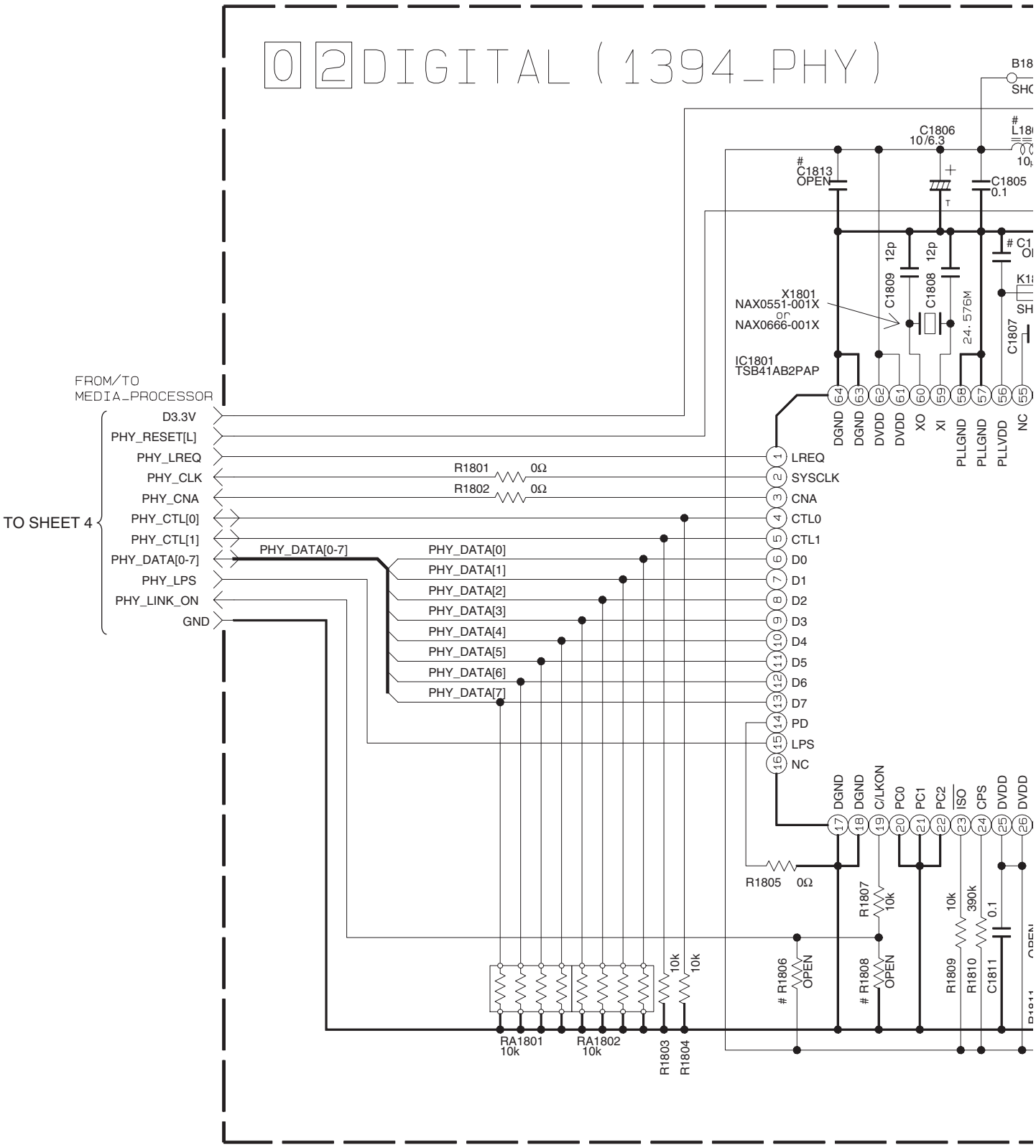
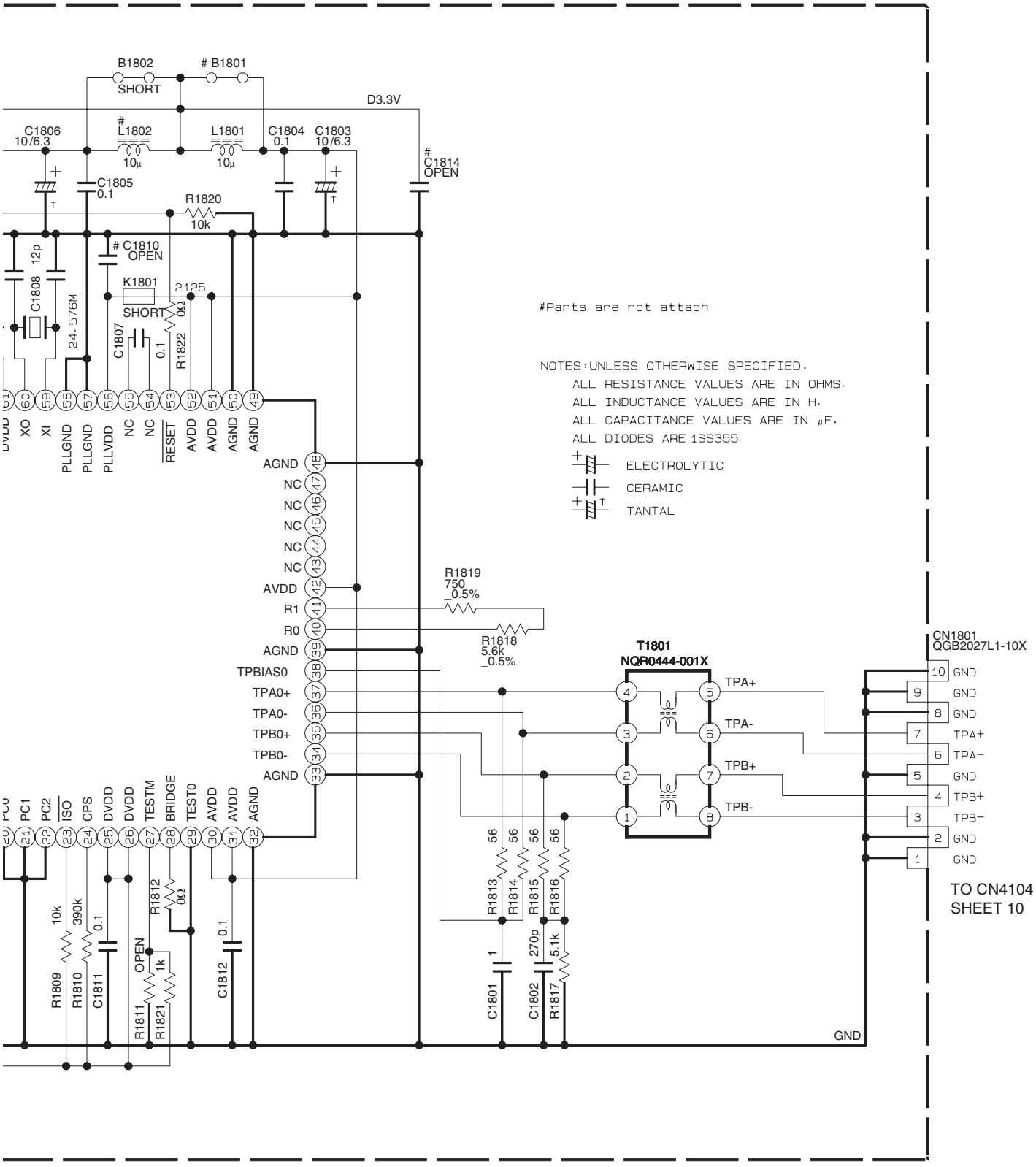
ble for this model.

SHEET 1

■ IEEE1394 Section





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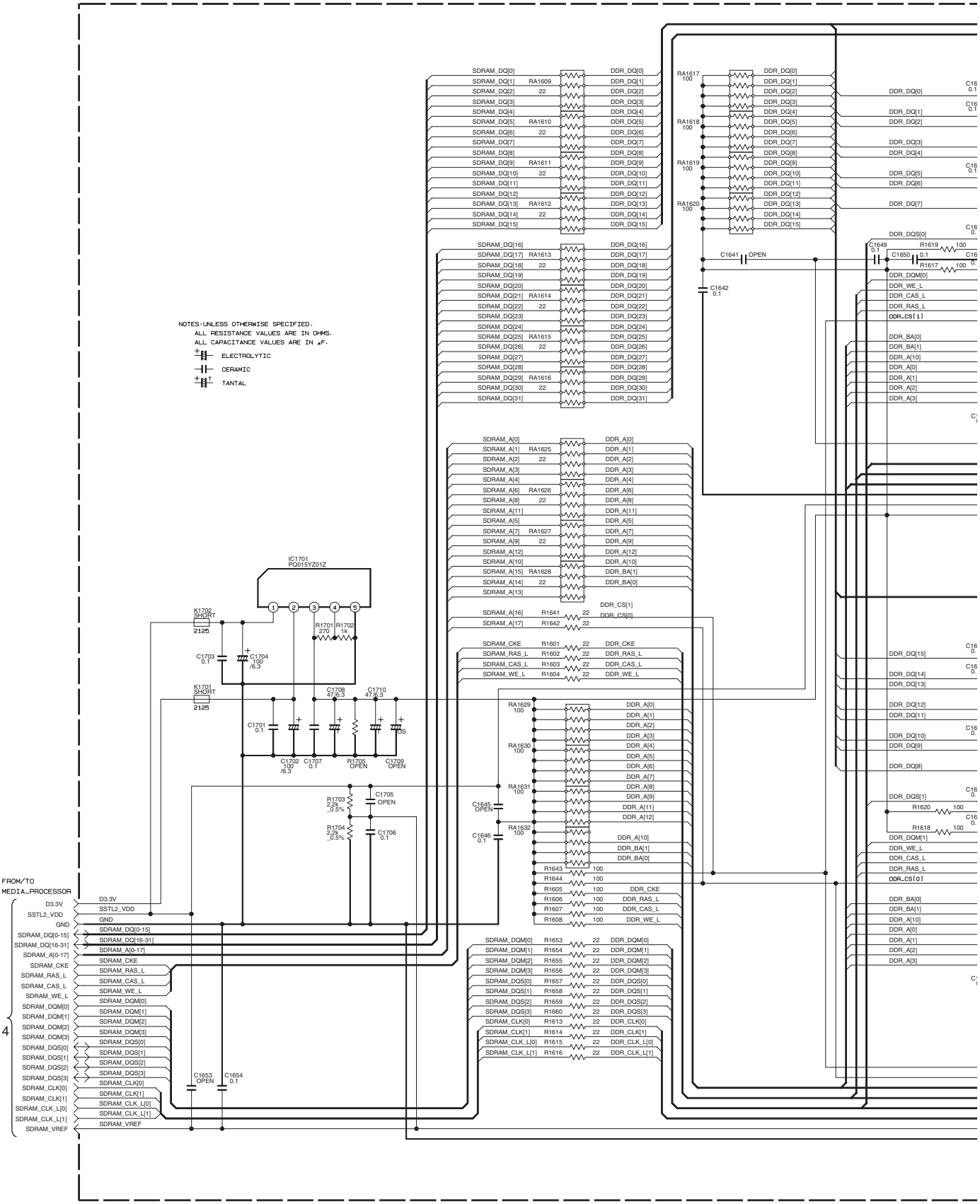
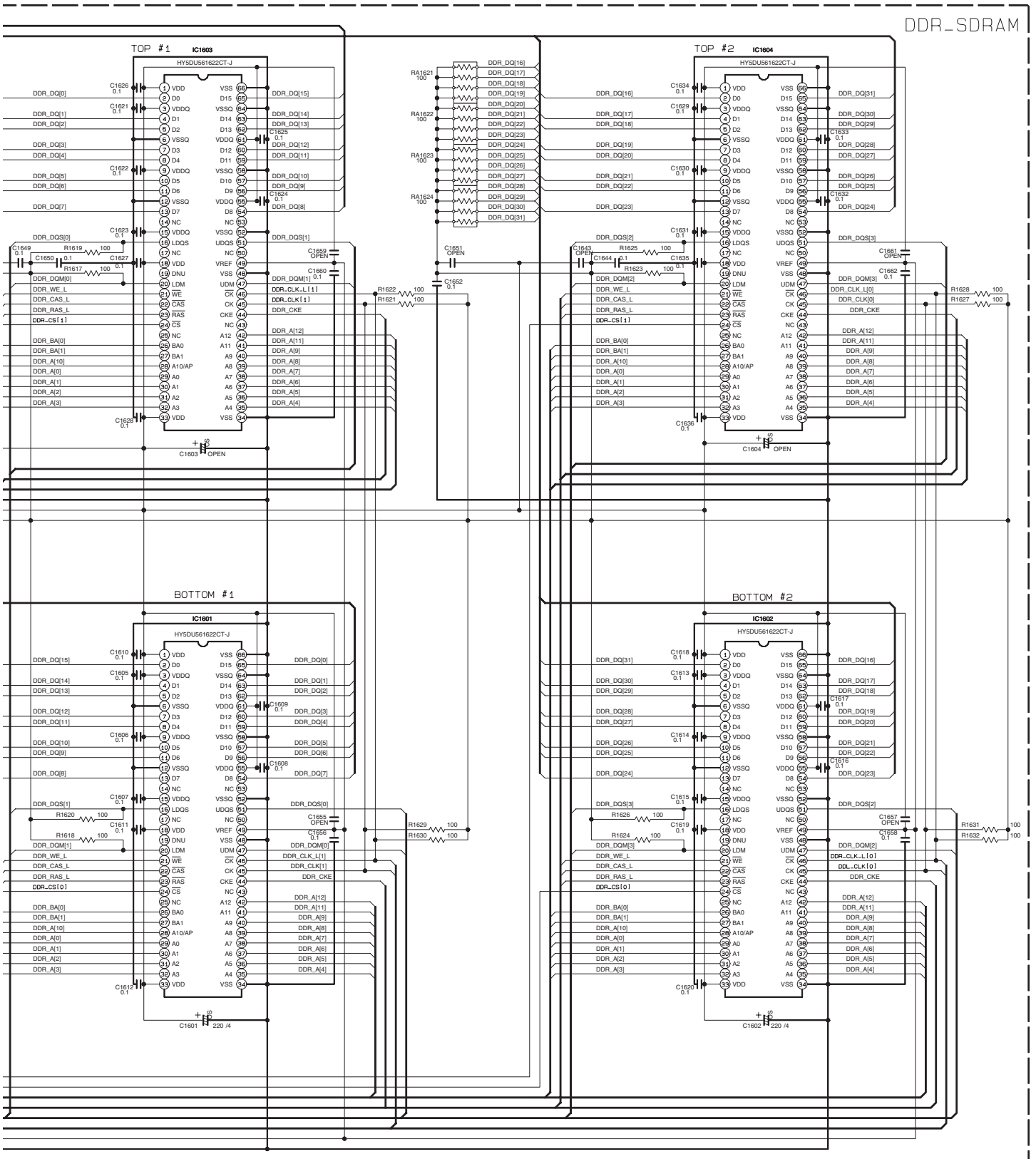
SHEET 2

■ DDR SDRAM Section





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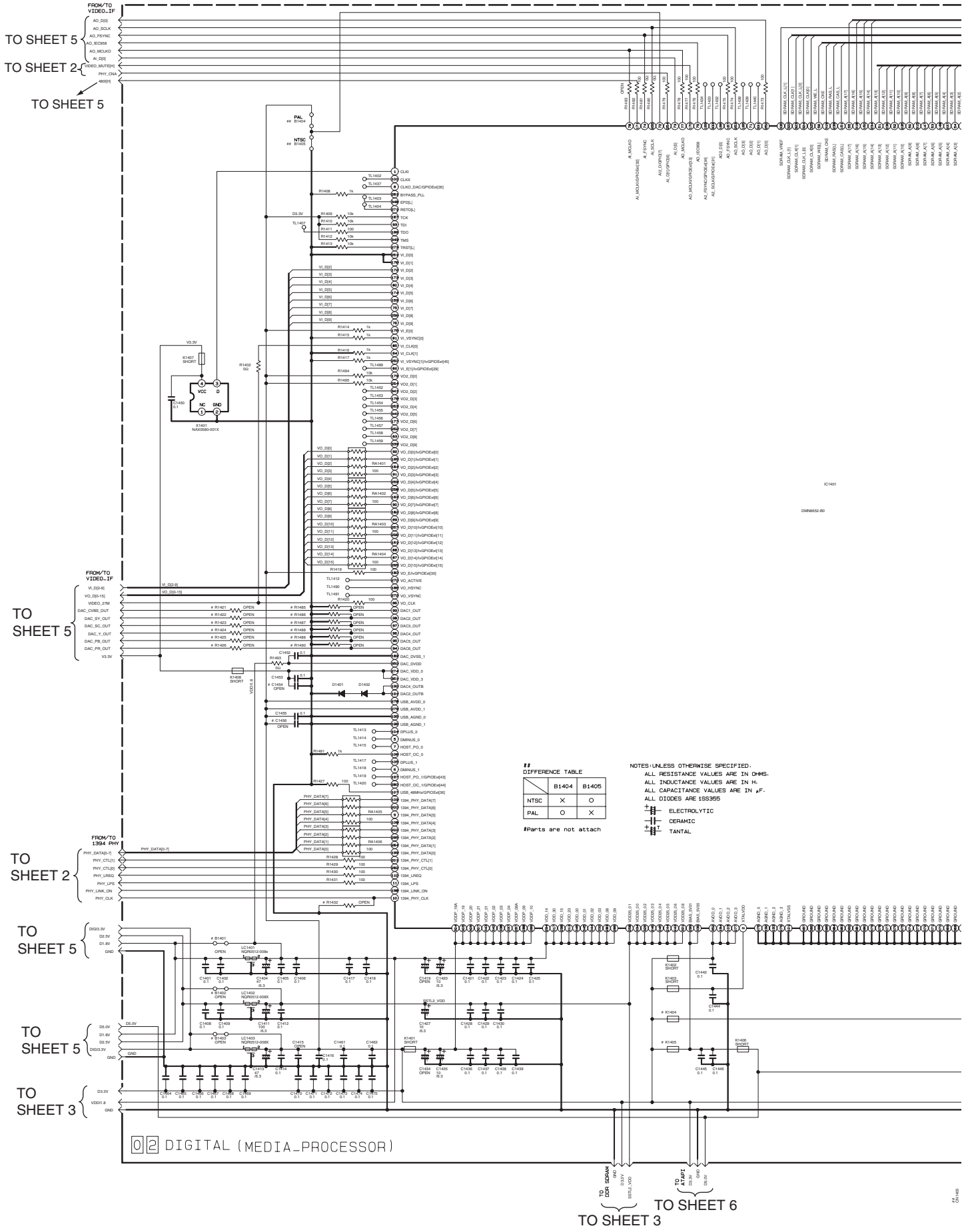
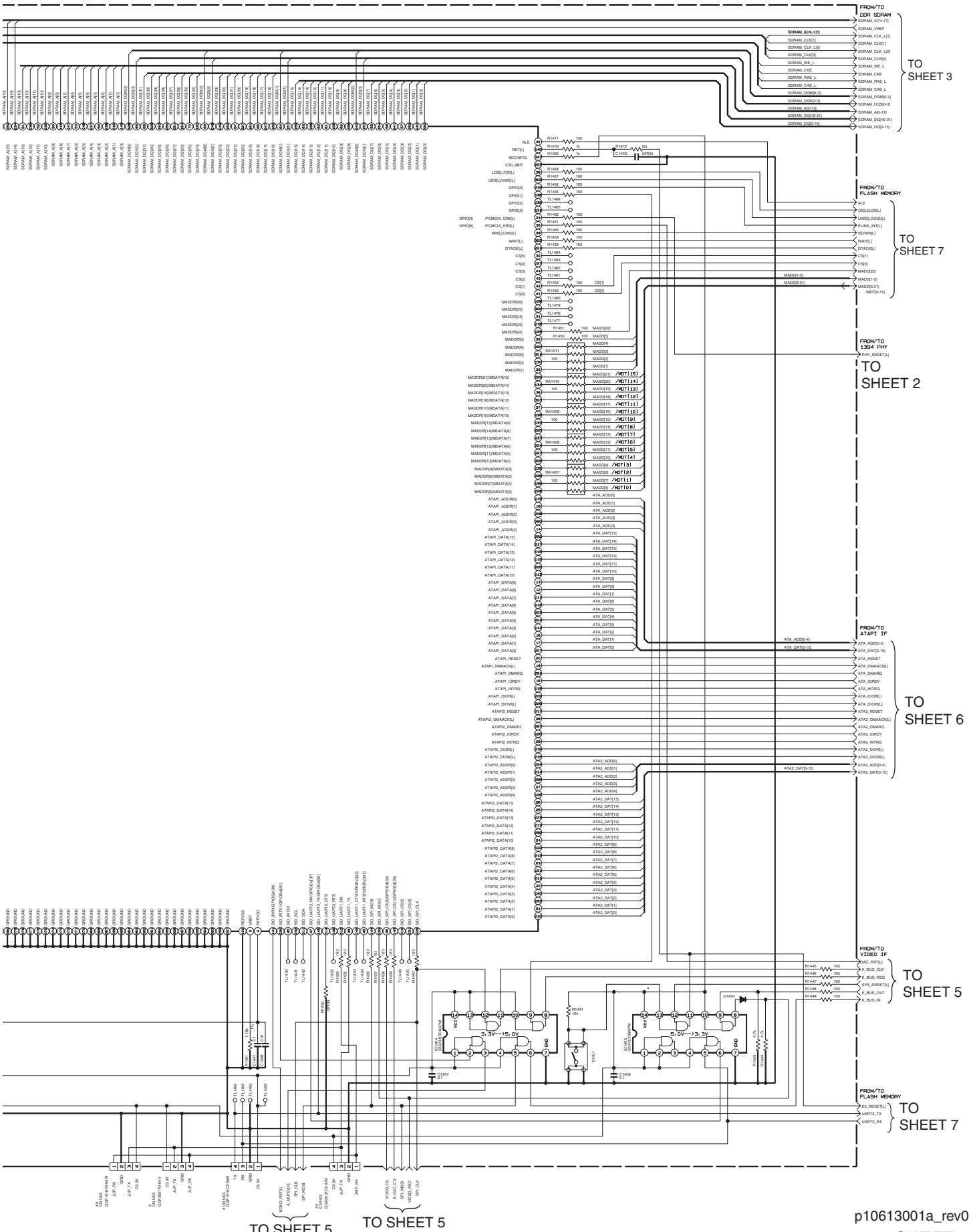
SHEET 3

■ Media processor section





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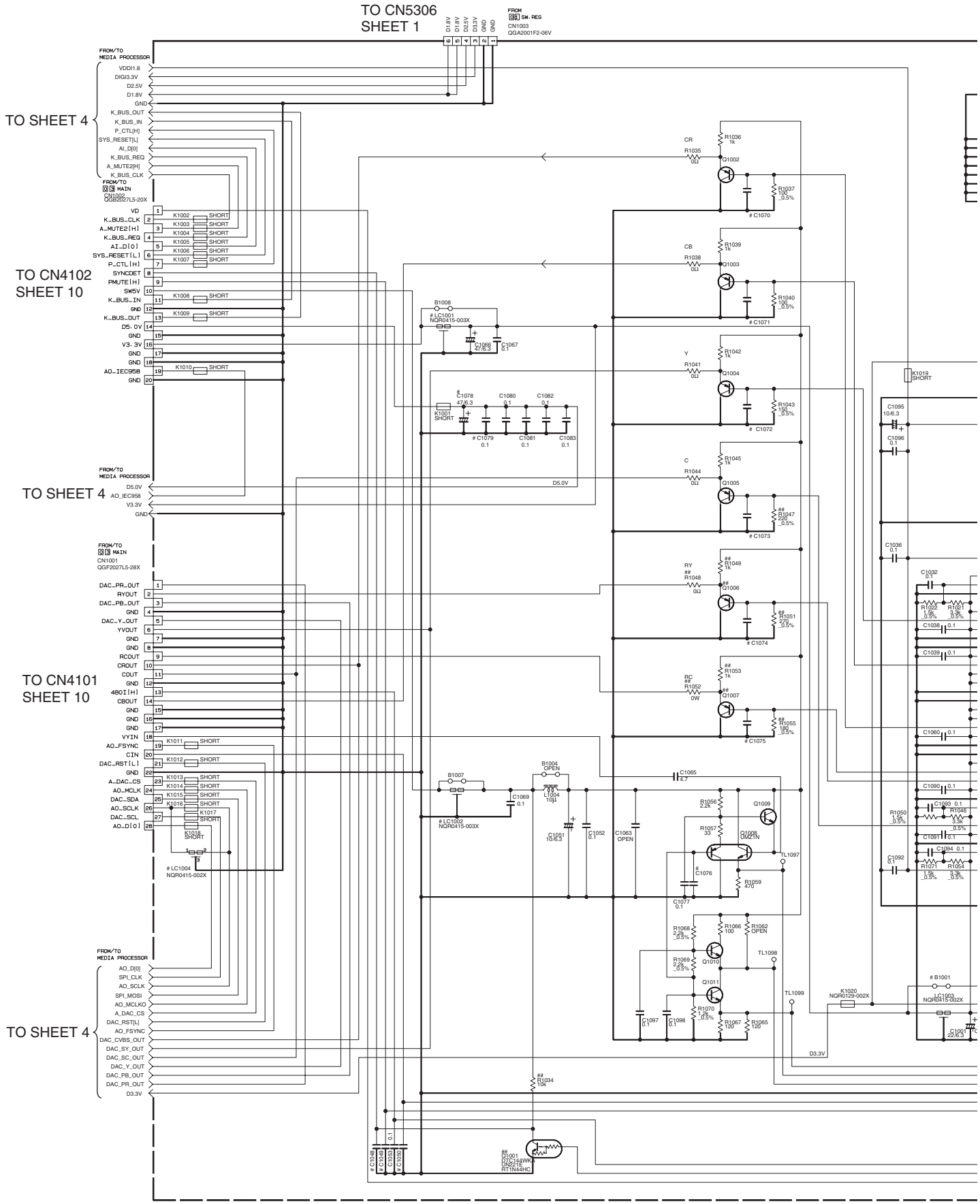
SHEET 4

■ Video interface section



Only ver.TW 9 8 DIGITAL SUB

Connect to CN1001-5pin — R0110 120 — Connect to R1483(R1476 side)

Connect to CN1001-3pin — R0120 120 — Connect to R1480(R1479 side) } TO SHEET 4

Connect to CN1001-1pin — R0130 120 — Connect to R1481(R1479 side)

0 2 DIGITAL (VIDEO_IF)

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ALL NPN TYPE TRANSISTORS ARE 2SC2412K/QR5/ or 2SC3928A/QR5/ or 2SD601A/QR5/
ALL PNP TYPE TRANSISTORS ARE 2SA1037AK/QR/ or 2SA1530A/QR/ or 2SB709A/QR/
ALL DIODES ARE 1SS355

ELECTROLYTIC
CERAMIC
TANTAL

##
DIFFERENCE TABLE

	R1047	R1046・R1049 R1051・Q1006	R1052・R1053 R1055・Q1007	R1034・Q1001
NTSC	220	×	×	○
PAL	200	○	○	×

#Parts are not attach

IC1002 HY57V161610DTC8 K4S161622H-TC80

IC1001 JCP8059

K1019 SHORT

C1058 / # B1001 / LC1003 NQR0415-002X

TL1031 TL1032 TL1033 TL1034 TL1035 TL1092 TL1093

27M_SDRAM 27M_8259 27M_VIDEO

FROM/TO MEDIA PROCESSOR

VI_D[2-9] VO_D[0-15] VIDEO_27M VIDEO_MUTE[H] VIDEO_RXD VIDEO_RST[L] SPI_MOSI VIDEO_CS SPI_CLK 480I[H]

TO SHEET 4

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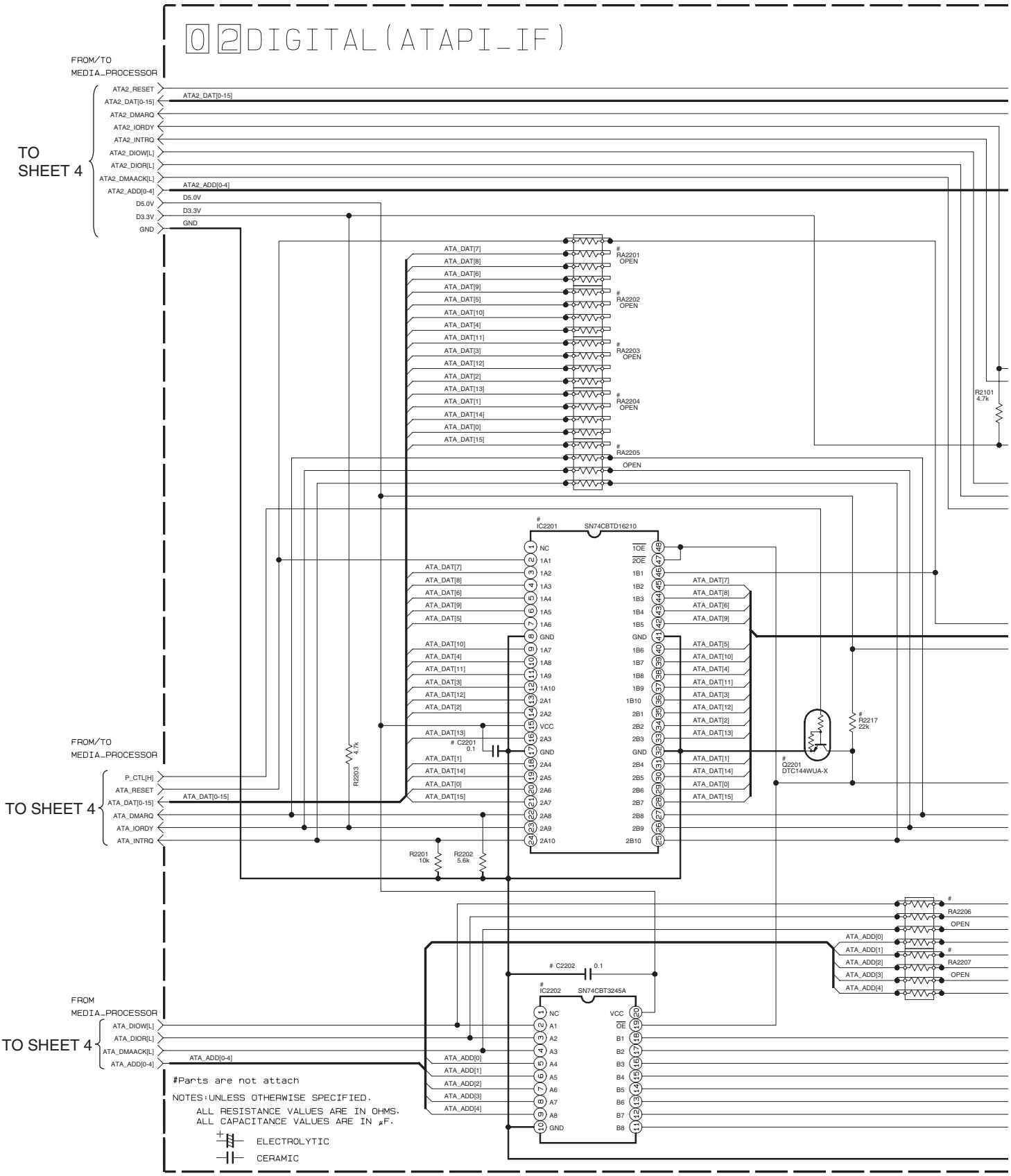
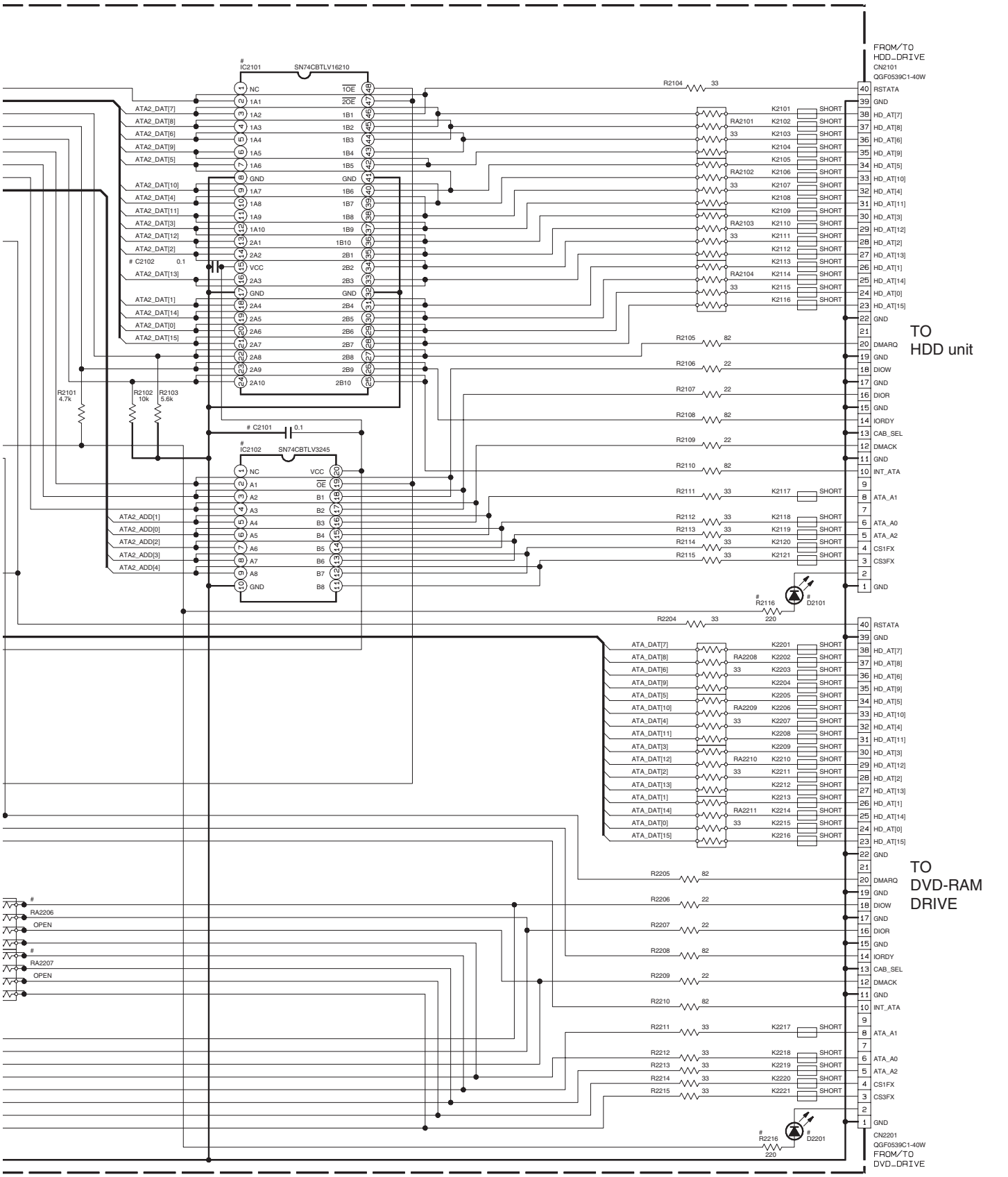
SHEET 5

■ ATAPI Interface section





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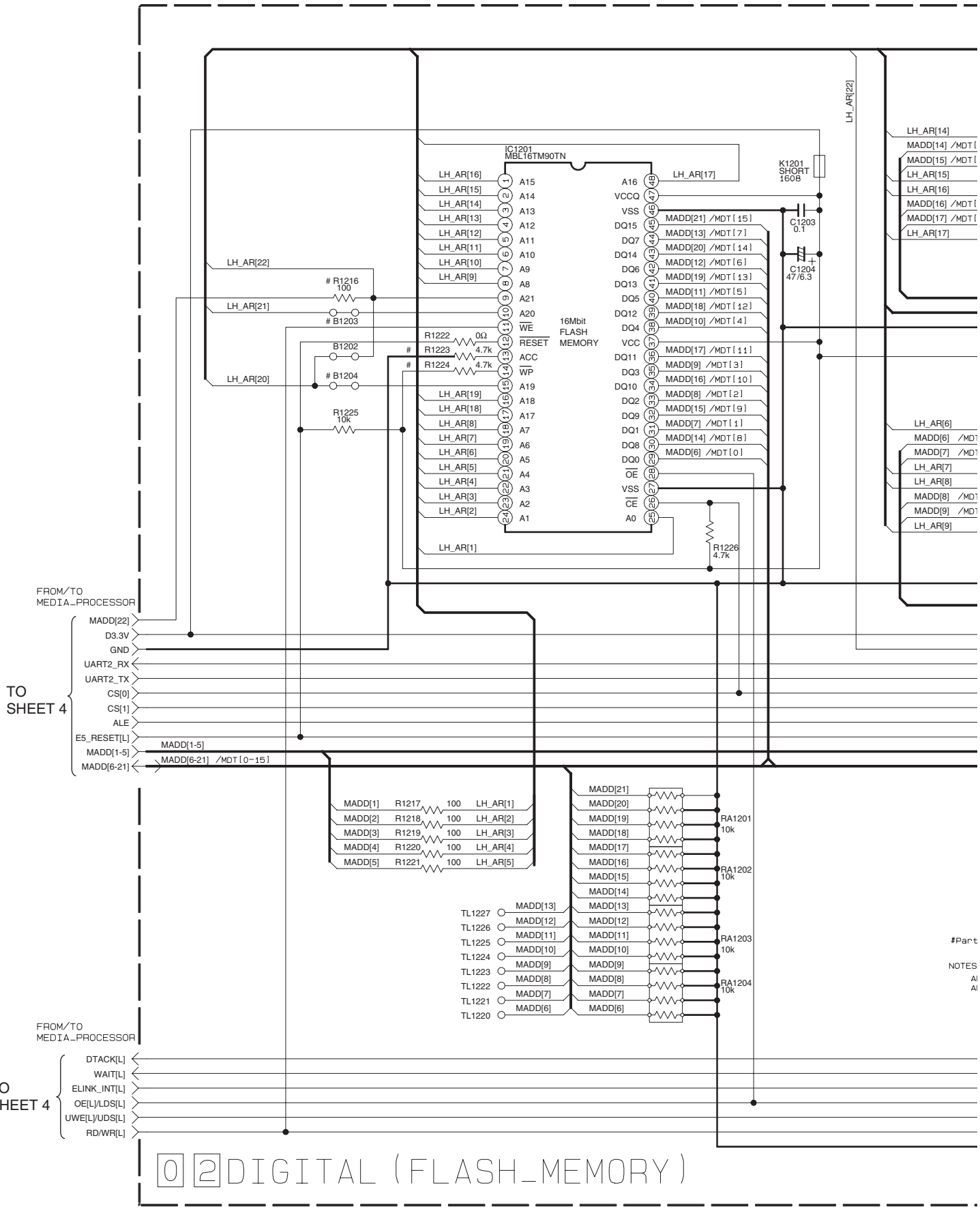
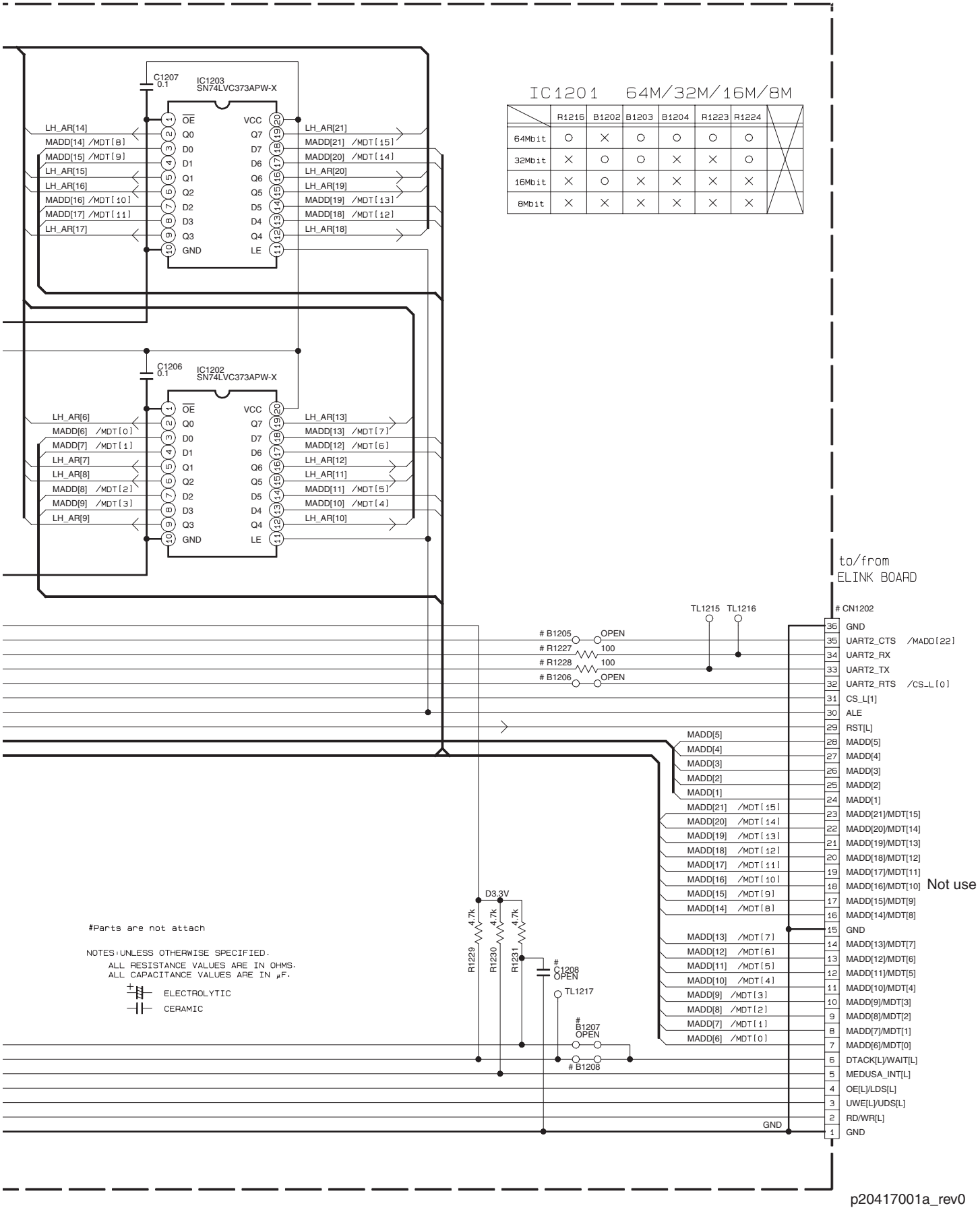
SHEET 6

■ FLASH-ROM Section





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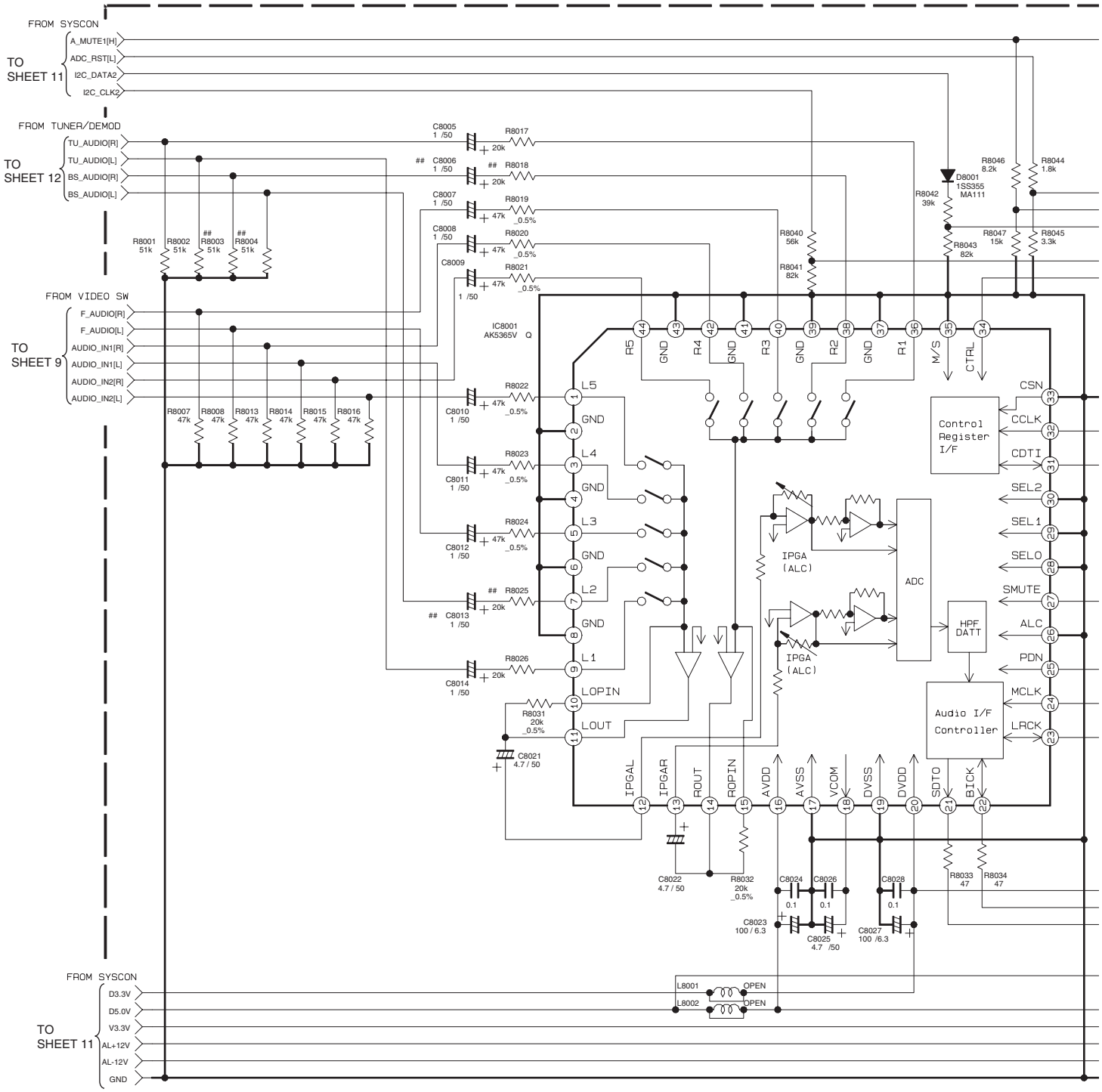
SHEET 7

■ Audio signal control section

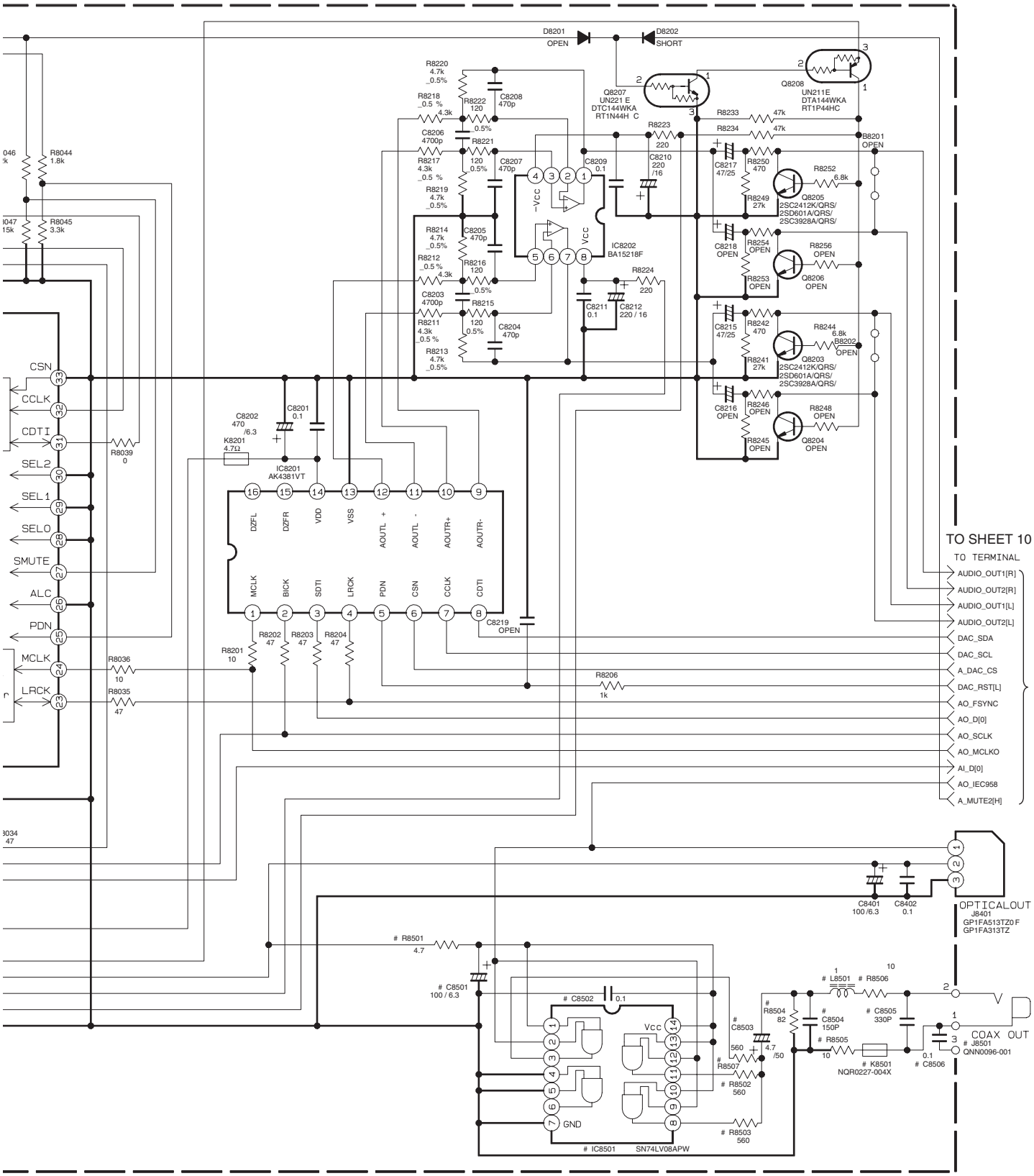


0 3 MAIN(AUDIO)

NOTES:THE PARTS OF # MARK ARE USED FOR THE MODEL WITH COAX OUT.
NOTES:THE PRATS OF ## MARK ARE USED FOR THE MODEL WITH BS TUNER.
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MY MYLER
N NON POLAR

	LAST NO				
R	8047	8256	—	8507	8005-
C	8028	8219	8402	8506	8001-
D	8001	8202	—	—	
Q	—	8208	—	—	8201-
L	8002	—	—	8501	
IC	8001	8202	—	8501	
K	—	8201	—	8501	
B	—	8202	—	—	
J	—	—	8401	8501	



_AST	NO		VACANT NO	
256	—	8507	8005. 8006. 8009–8012. 8027–8030. 8037. 8038	8205. 8207–8210. 8225–8232. 8235–8240. 8243. 8247. 8251. 8255
219	8402	8506	8001–8004. 8015–8020	8213. 8214
202	—	—		
208	—	—	8201. 8202	
—	—	8501		
202	—	8501		
201	—	8501		
202	—	—		
—	8401	8501		

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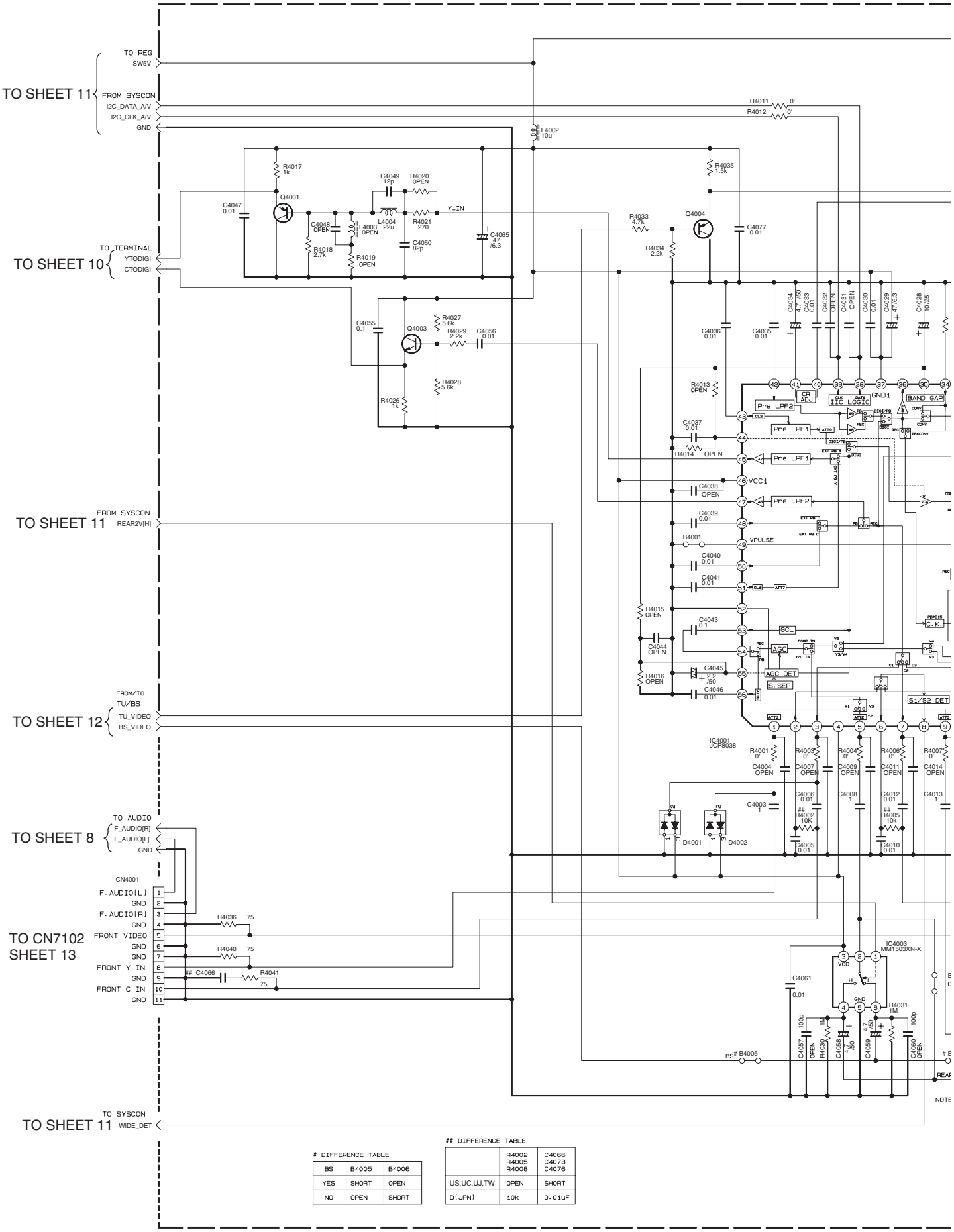
SHEET 8

■ Audio/video signal input control section

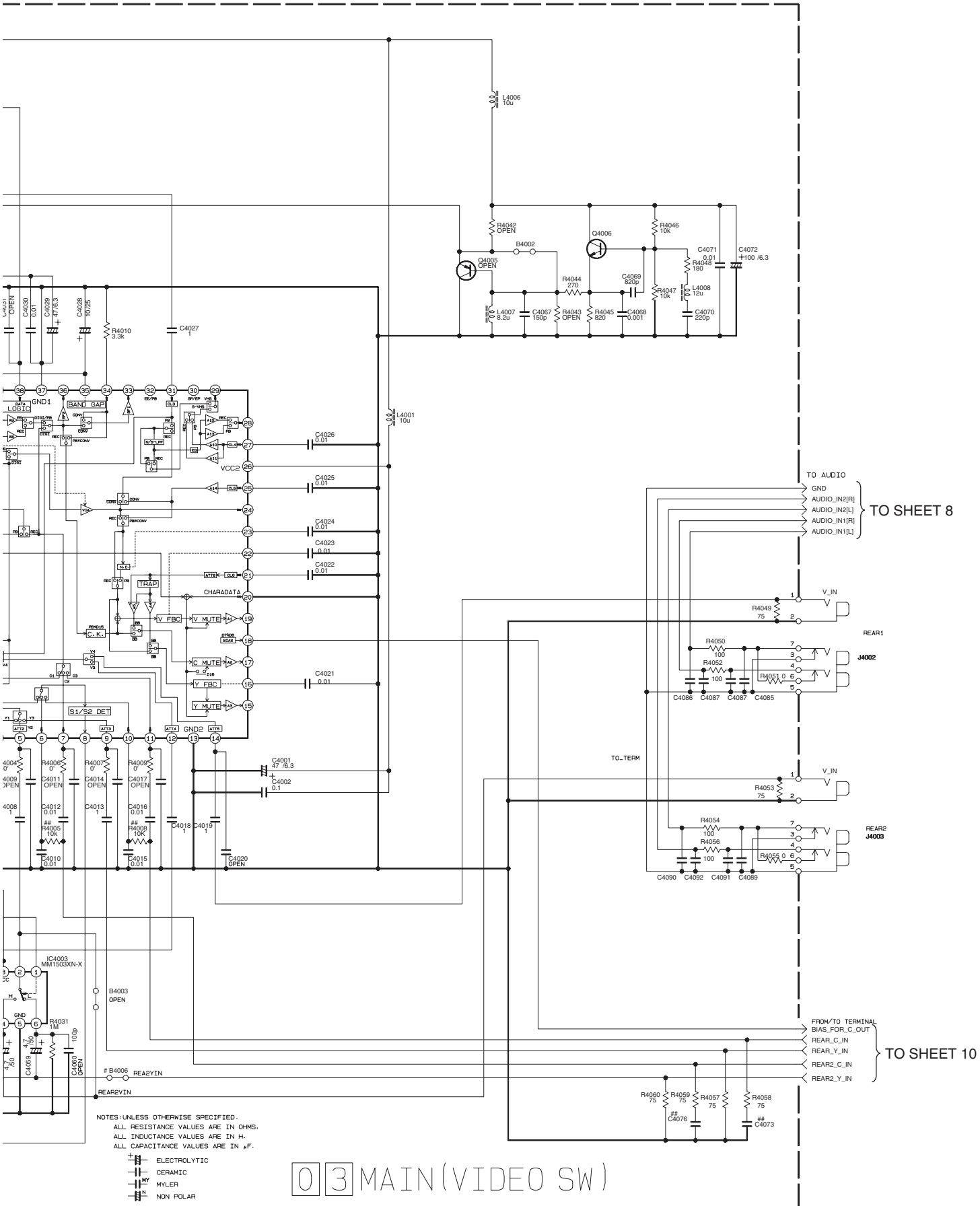


DIFFERENCE TABLE

BS	B4005	B4006
YES	SHORT	OPEN
NO	OPEN	SHORT

DIFFERENCE TABLE

	R4002 R4005 R4008	C4066 C4073 C4076
US,UC,UJ,TW	OPEN	SHORT
D[JPN]	10k	0.01uF



NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

03 MAIN(VIDEO SW)

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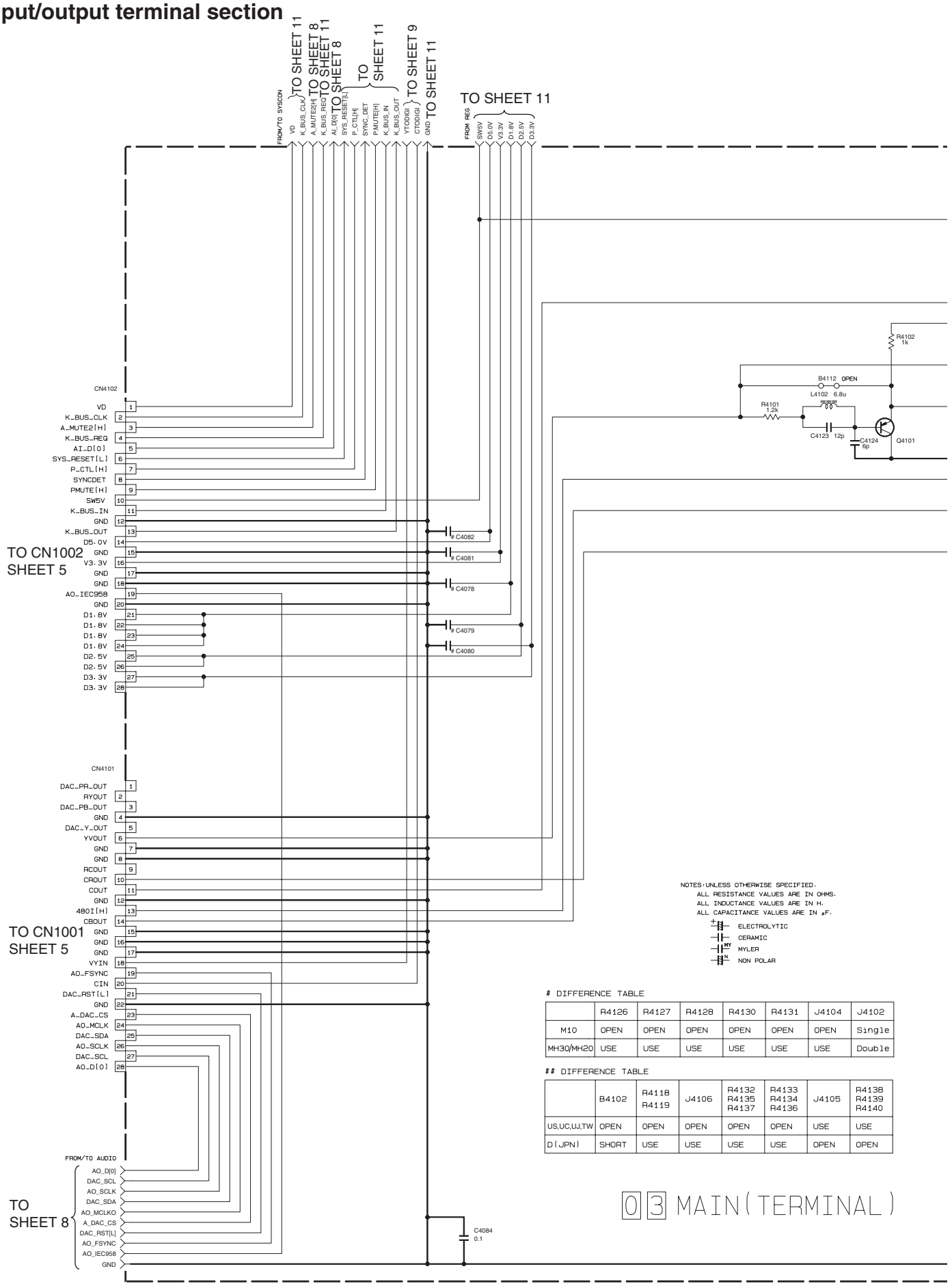
SHEET 9

■ Input/output terminal section



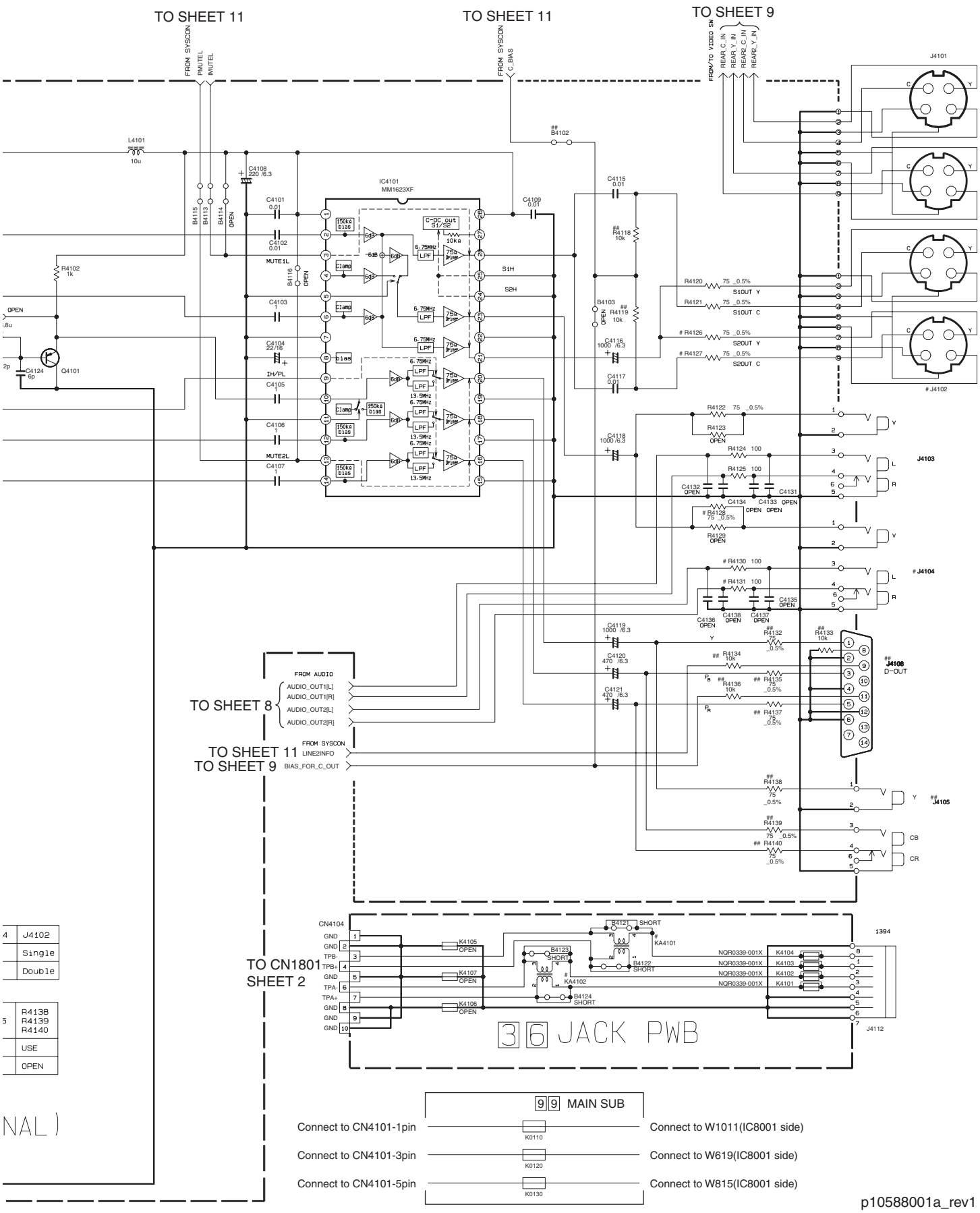
DIFFERENCE TABLE

	R4126	R4127	R4128	R4130	R4131	J4104	J4102
M10	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	Single
MH30/MH20	USE	USE	USE	USE	USE	USE	Double

DIFFERENCE TABLE

	B4102	R4118 R4119	J4106	R4132 R4135 R4137	R4133 R4134 R4136	J4105	R4138 R4139 R4140
US,UC,UJ,TW	OPEN	OPEN	OPEN	OPEN	OPEN	USE	USE
D(JPN)	SHORT	USE	USE	USE	USE	OPEN	OPEN

03 MAIN(TERMINAL)



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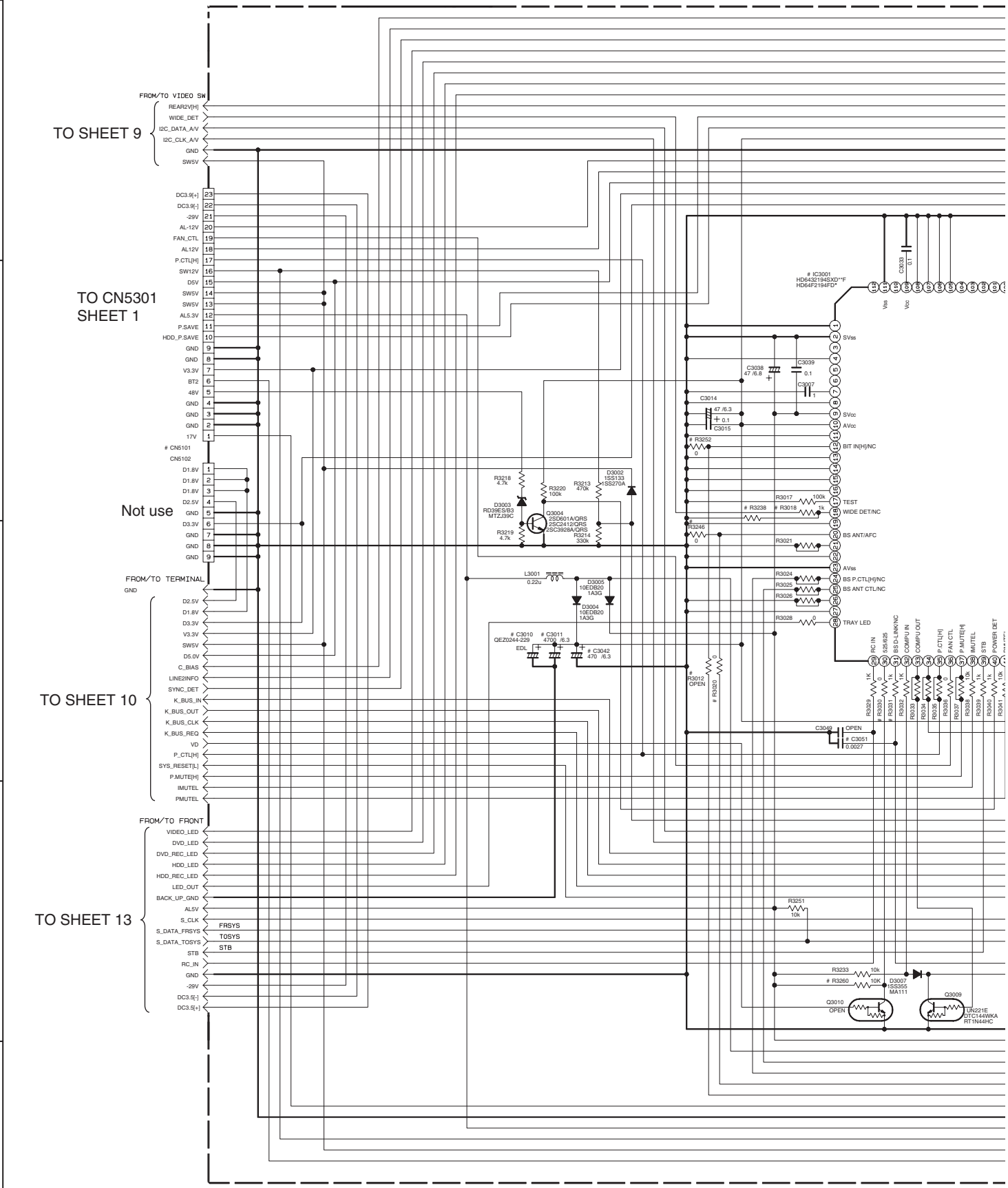
SHEET 10

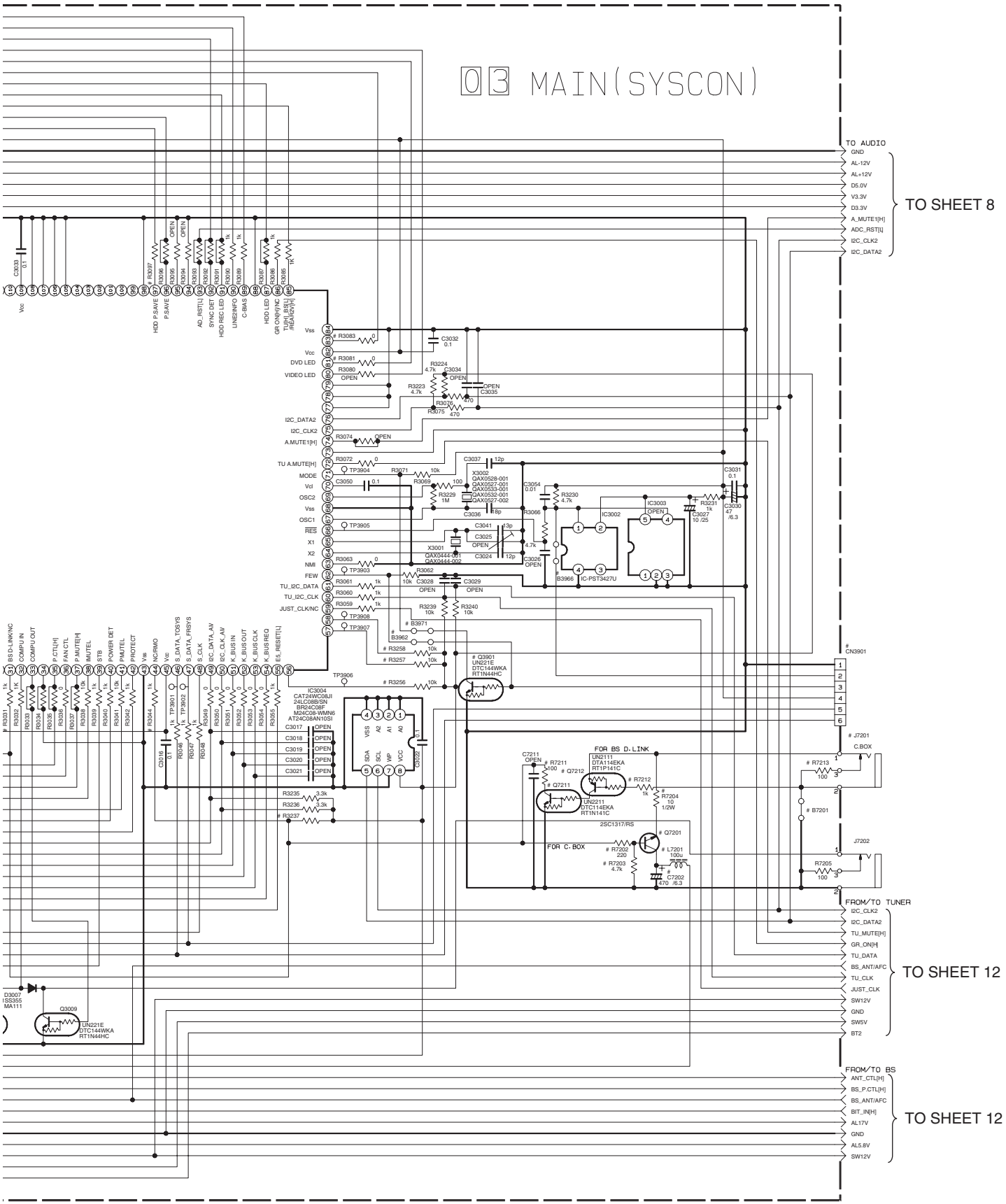
■ System controller section



DIFFERENCE TABLE

SYMBOL / MODEL	CPU	BS		BS or WIDE DET				VD	BS D LINK	C-BOX CTL	HDD	GR	BACK UP		
	IC3001	R3012	R3252	R3020	R3238	R3018	R3246	R3030 R3260	R3031-C3051 Q7211-Q7213 Q7215-Q7218	R3044-R3077 R3079-R3084 C7202-C7203	R3081 R3083 R3097	R3086	C3010 C3042	C3011	R3056-R3058 R3061-R3062 R3070-R3071 C3901
M10SUS/SUC	43	X	O	O	O	X	X	O	X	O	X	X	O	X	USE FOR FLASH CPU
M10JP	76	X	O	X	X	O	O	X	O	X	X	X	O	X	USE FOR FLASH CPU
MH20SUS/SUC MH30SUS/SUC	79	X	O	O	O	X	X	X	X	O	O	X	O	X	USE FOR FLASH CPU
MH30STH	79	X	O	O	O	X	X	X	X	O	O	X	O	X	USE FOR FLASH CPU
MH30SUJ/20SUJ	79	X	O	O	X	O	X	O	X	O	O	X	O	X	USE FOR FLASH CPU

NOTES:UNLESS OTHERWIS
ALL RESISTANCE VA
ALL INDUCTANCE VA
ALL CAPACITANCE V.
ELECTRO
CERAMIC
MYLER
NON POL.



	LAST NO		VACANT NO	
R	3260	7213	3001, 3011, 3013, 3016, 3019, 3022, 3023, 3027, 3043, 3045, 3056, 3058, 3064, 3065, 3067, 3068, 3070, 3073, 3077, 3079, 3082, 3084, 3088, 3098, 3212, 3215, 3217, 3221, 3222, 3225, 3228, 3232, 3234, 3241, 3245, 3247, 3250, 3253, 3255, 3259	7201, 7206, 7210
C	3054	7211	3001, 3006, 3008, 3009, 3012, 3013, 3023, 3040, 3043, 3048, 3052, 3053	7201, 7203, 7210
D	3007		3001, 3006	
Q	3901	7212	3001, 3003, 3005, 3008, 3011, 3900	7202, 7210
L	3001	7201		
IC	3004			
X	3002			

NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

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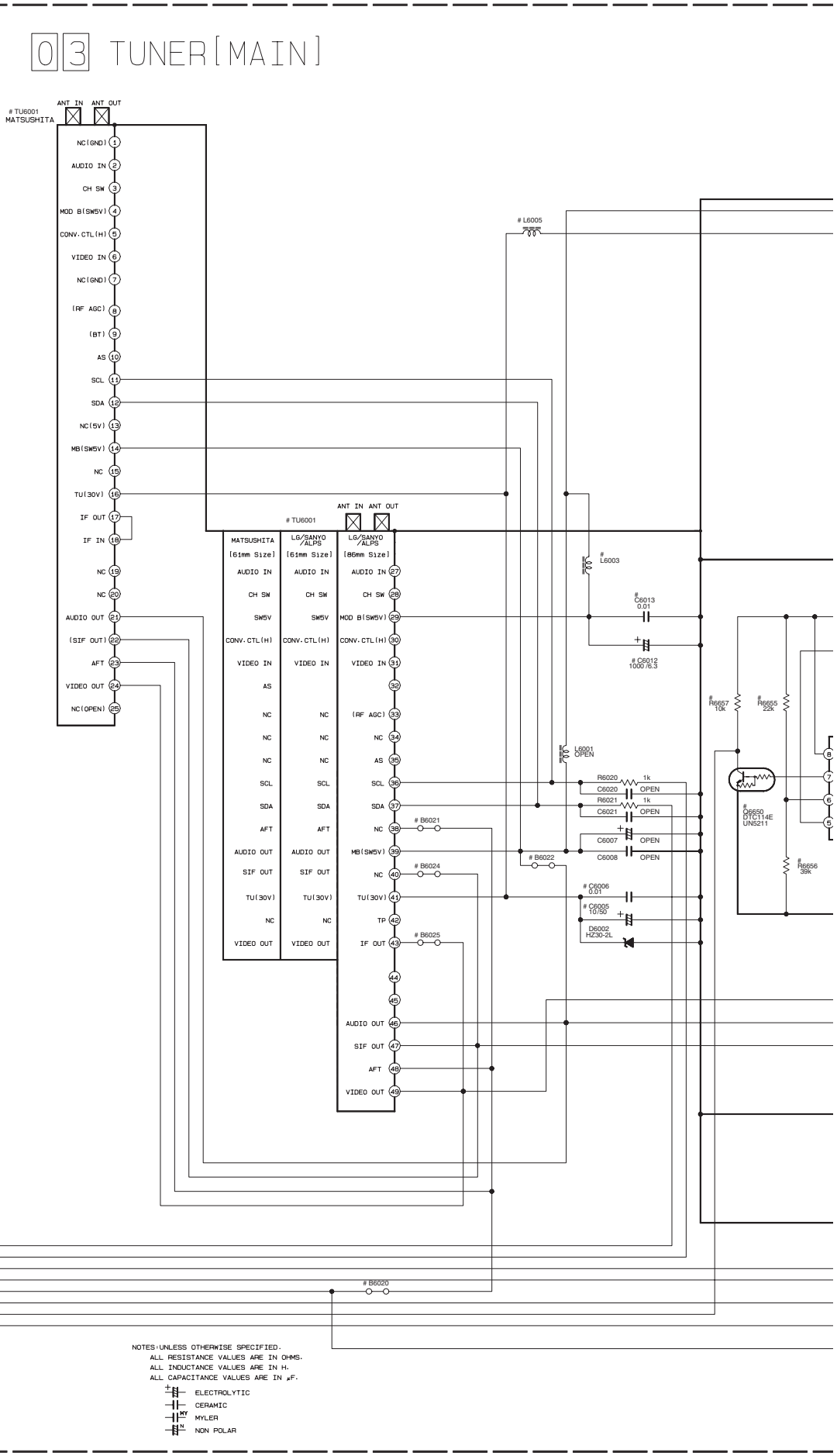
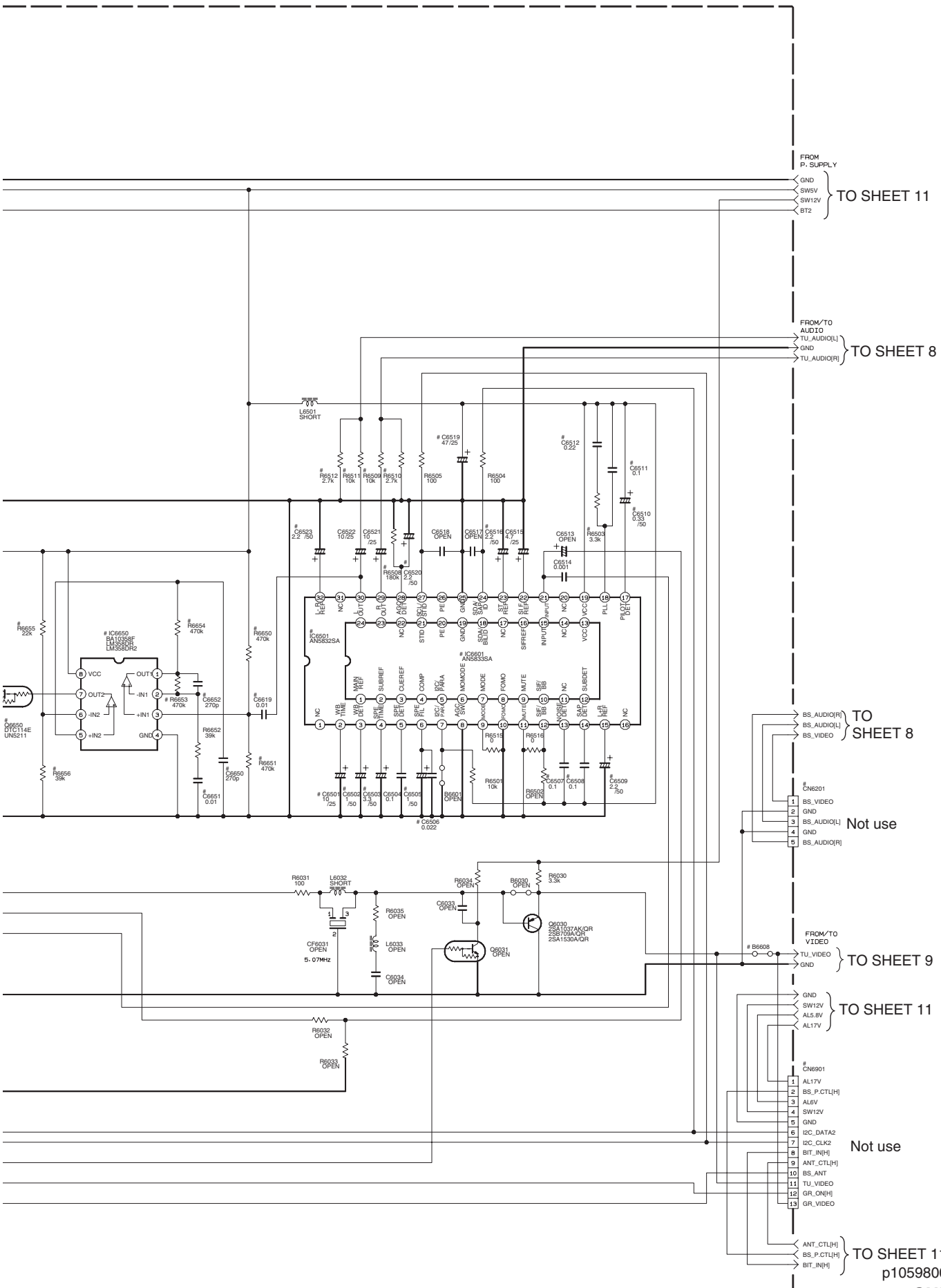
SHEET 11

■ Tuner section

DIFFERENCE TABLE

FUNCTION	SYMBOL	US,UC,UJ,TW	JAPAN
[TUNER]			
TUNER UNIT	TU6001	LG 61mm Size QAU0336	SANYO 61mm Size QAU0335
TUNER OPTION BUS	B6020・B6021	○	×
	B6022	×	×
	B6024・B6025	○	○
SW5V	L6003	SHORT	SHORT
	C6012	×	×
	C6013	×	×
TU(30V)	L6005	SHORT	SHORT
	C6005	×	×
	C6006	×	×
[DEMOD]			
DEMOD IC	IC6501	○	×
	IC6601	×	○
OUTPUT LEVEL	R6509・R6511	6.8k	10k
	R6510・R6512	3.3k	2.7k
	C6502	0.33/50	1/50
	C6503	3.3/50	1/50
	C6505	×	○
	C6508	0.033	0.1
	R6503・R6508・C6501・C6506・C6507・C6509−C6512・C6516・C6520・	○	×
	C6519	○	×
JUST CLOCK	IC6650・Q6650・R6650−R6657・C6619・C6650−C6652	×	○
[OTHER]			
GR	B6608	○	○
	CN6901	×	×
BS	CN6201	×	×

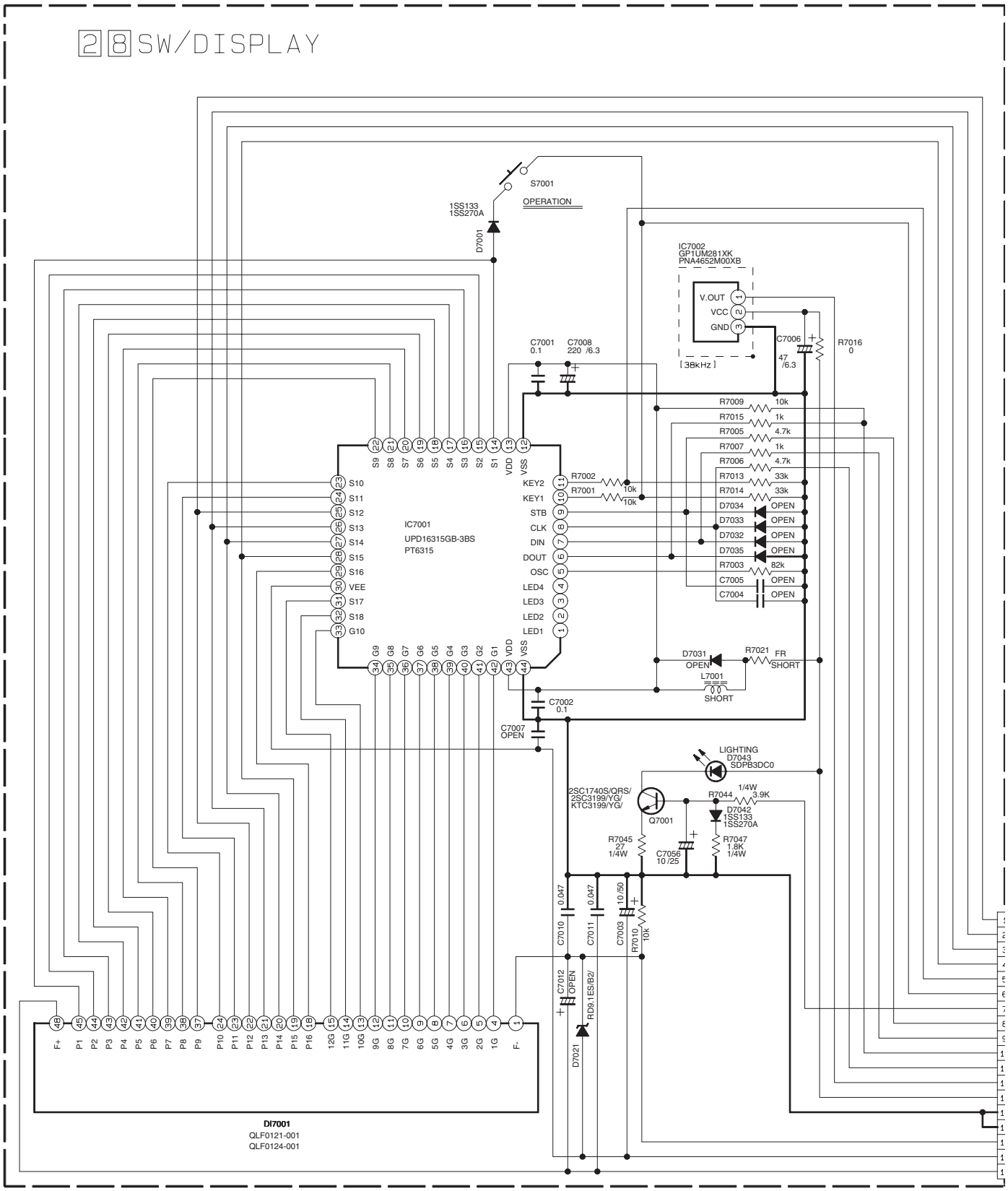




p10598001a_rev1

SHEET 12

■ FL Display and operation switch section

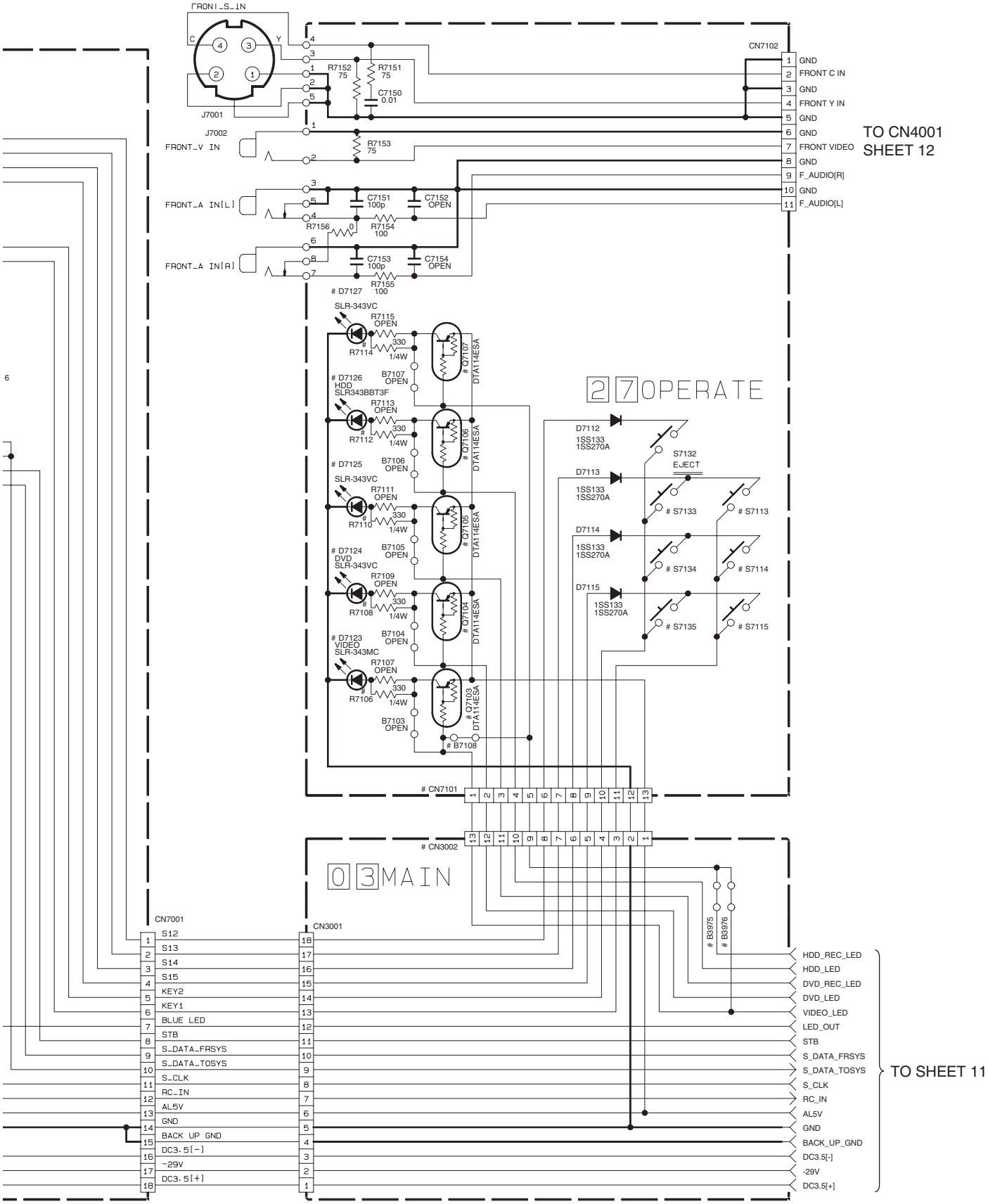


DIFFERENCE TABLE

	S7113	S7114	S7115	S7133	S7134	S7135	D7123, R7106 Q7103, B7108 B3976	D7124-D7127, R7108 R7110, R7112, R7114 Q7104-Q7107, B3975	CN7101	CN3002
M10	REC	REC MODE	PAUSE	×	STOP	PLAY	×	×	9PIN(5-13)	9PIN(1-9)
MH20/MH30	DVD	HDD	REC	STOP	PLAY	PAUSE	×	○	13PIN	13PIN

NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR



WISE SPECIFIED.
: VALUES ARE IN OHMS.
: VALUES ARE IN H.
E VALUES ARE IN μF.

TROLYTIC
MIC
R
POLAR

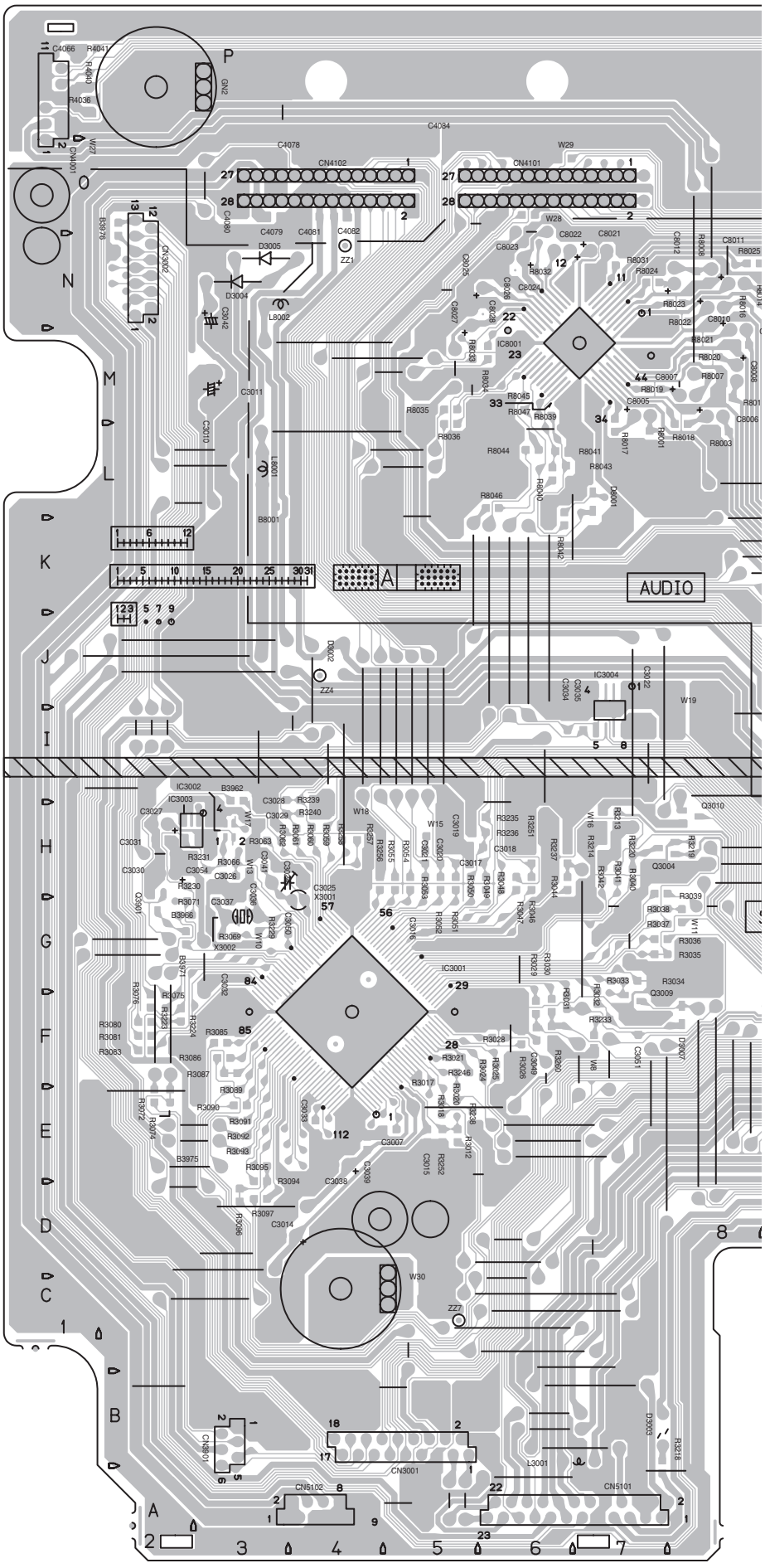
	LAST No.		VACANT No.	
R	7047	7156	7004, 7008, 7011, 7012, 7017–7020, 7022–7043, 7046	7101–7105, 7116–7150
C	7056	7154	7009, 7013–7055	7101–7149
D	7043	7127	7002–7020, 7022–7030, 7036–7041	7101–7111, 7116–7122
Q	7001	7107		7101, 7102
L	7001			
IC	7002			
DI	7001			
S	7001	7135		7101–7112, 7116–7131
CN	7001	7102		

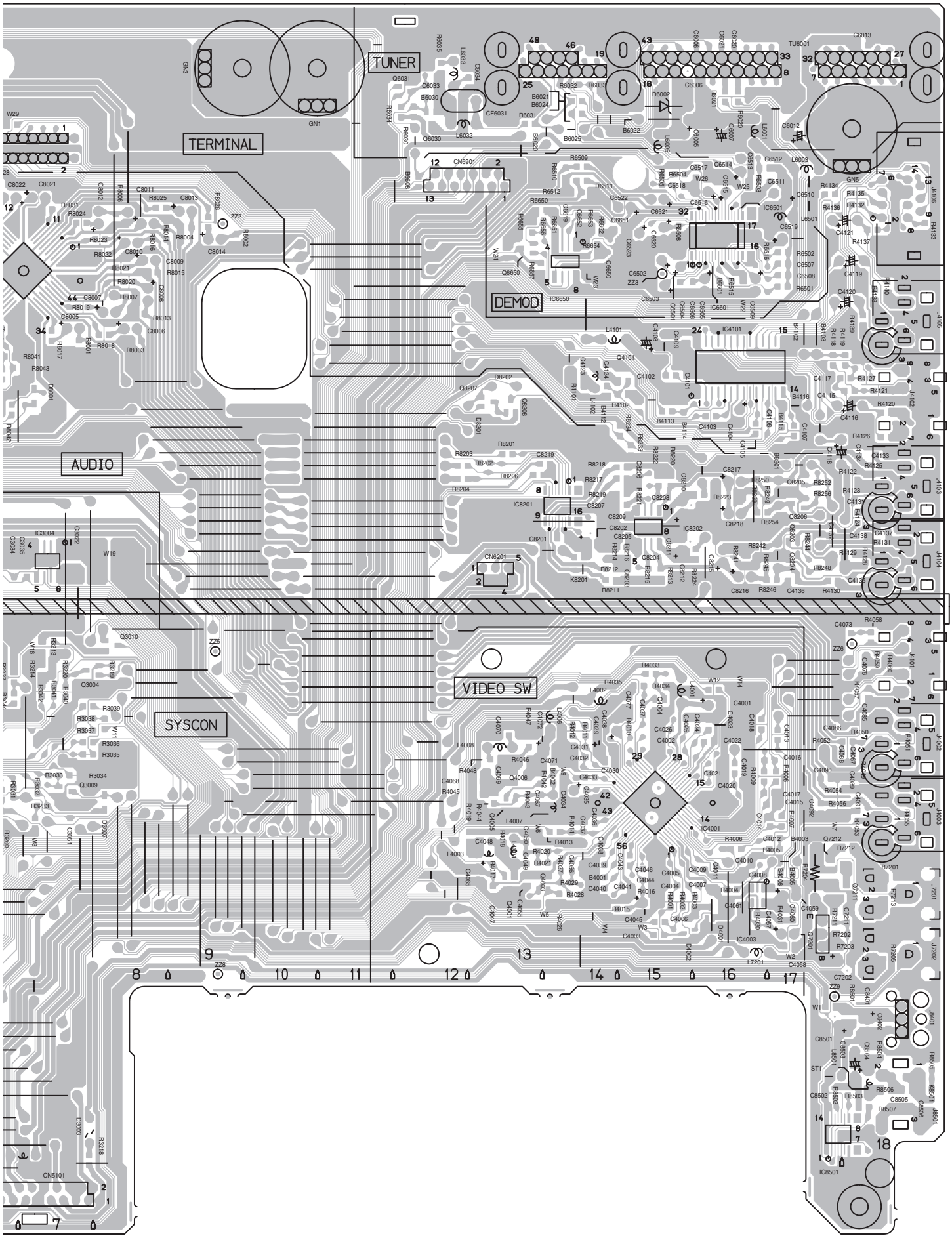
p20404001a_rev0

SHEET 13

Printed circuit boards

■ Main board <03> LPB10230-001C




TUNER
TERMINAL
DEMOD
AUDIO
VIDEO SW
SYSCON

COMPONENT PARTS LOCATION GUIDE <MAIN> LPB10230-001C

REF.NO.	LOCATION
CAPACITOR	
C3007	B C 5E
C3010	A D 3M
C3011	A D 3M
C3014	A D 4D
C3015	B C 5E
C3016	B C 5G
C3017	B C 5H
C3018	B C 5H
C3019	B C 5H
C3020	B C 5H
C3021	B C 5H
C3022	B C 7I
C3024	B C 3H
C3025	A D 3H
C3026	B C 3H
C3027	A D 2H
C3028	B C 3I
C3029	B C 3H
C3030	A D 2H
C3031	B C 2H
C3032	B C 3G
C3033	B C 4E
C3034	B C 6I
C3035	B C 7I
C3036	B C 3H
C3037	B C 3G
C3038	A D 4E
C3039	B C 4E
C3041	B C 3H
C3042	A D 3N
C3049	B C 6F
C3050	B C 4G
C3051	B C 7F
C3054	B C 3H
C4001	A D 16H
C4002	B C 15G
C4003	B C 15D
C4004	B C 15E
C4005	B C 15E
C4006	B C 15E
C4007	B C 16E
C4008	B C 16E
C4009	B C 16E
C4010	B C 16E
C4011	B C 16E
C4012	B C 17F
C4013	B C 17G
C4014	B C 17F
C4015	B C 17F
C4016	B C 17G
C4017	B C 17F
C4018	B C 16G
C4019	B C 16G
C4020	B C 16F
C4021	B C 16G
C4022	B C 16G
C4023	B C 16G
C4024	B C 16G
C4025	B C 15G
C4026	B C 15G
C4027	B C 15G
C4028	A D 14G
C4029	A D 14G
C4030	B C 14G
C4031	B C 14G
C4032	B C 14G
C4033	B C 14G
C4034	A D 14F
C4035	B C 14F
C4036	B C 14F
C4037	B C 14F
C4038	B C 14F
C4039	B C 14E
C4040	B C 14E
C4041	B C 15E
C4043	B C 15E
C4044	B C 15E
C4045	A D 15E
C4046	B C 15E
C4047	B C 13E
C4048	B C 13F
C4049	B C 13F
C4050	B C 13F
C4055	B C 13E
C4056	B C 14E
C4057	B C 17E
C4058	A D 17E
C4059	A D 17E
C4060	B C 17E
C4061	B C 16E
C4065	A D 13E
C4066	B C 1P
C4067	B C 13F
C4068	B C 13G
C4069	B C 13G
C4070	B C 13G
C4071	B C 14G
C4072	A D 14G
C4073	B C 18I
C4076	B C 18H
C4077	B C 15H
C4078	B C 4O
C4079	B C 3O
C4080	B C 3O
C4081	B C 4O
C4082	B C 4O
C4084	B C 5O
C4085	B C 18G
C4086	B C 17G
C4087	B C 18G
C4088	B C 18G
C4089	B C 18G
C4090	B C 17G
C4091	B C 18F
C4092	B C 17F
C4101	B C 15L
C4102	B C 15L
C4103	B C 16K
C4104	A D 16K
C4105	B C 16K
C4106	B C 17K
C4107	B C 17K
C4108	A D 15L
C4109	B C 15L
C4115	B C 18L
C4116	A D 17L
C4117	B C 18L
C4118	A D 17K
C4119	A D 17M
C4120	A D 17M
C4121	A D 17N
C4123	B C 14L
C4124	B C 14L
C4131	B C 18J
C4132	B C 17J
C4133	B C 18K
C4134	B C 18K
C4135	B C 18I
C4136	B C 17I
C4137	B C 18J
C4138	B C 18J
C6005	A D 15O
C6006	B C 15P
C6007	A D 16O
C6008	B C 16P
C6012	A D 17O
C6013	B C 18P
C6020	B C 16P
C6021	B C 16P
C6033	B C 12P
C6034	B C 13P
C6501	A D 15M
C6502	A D 15M
C6503	A D 15M
C6504	B C 15M
C6505	A D 16M
C6506	B C 16M
C6507	B C 17M
C6508	B C 17M
C6509	A D 16M
C6510	A D 17N
C6511	B C 17O
C6512	B C 16O
C6513	A D 16O
C6514	B C 16O
C6515	A D 16N
C6516	A D 16N
C6517	B C 16O
C6518	B C 15N
C6519	A D 17N
C6520	A D 15N
C6521	A D 15N
C6522	A D 15N
C6523	A D 15N
C6619	B C 14N
C6650	B C 14M
C6651	B C 15N
C6652	B C 14N
C7001	A D 10B
C7002	A D 12C
C7003	A D 12A
C7004	A D 10C
C7005	A D 10C
C7006	A D 16C
C7007	A D 13B
C7008	A D 10B
C7010	A D 12A
C7011	A D 12A
C7012	A D 13A
C7056	A D 14C
C7150	B C 21M
C7151	B C 21K
C7152	B C 21K
C7153	B C 21J
C7154	B C 21J
C7202	A D 17D
C7211	B C 18E
C8005	A D 7M
C8006	A D 8M
C8007	A D 8M
C8008	A D 8M
C8009	A D 8M
C8010	A D 8N
C8011	A D 8N
C8012	A D 8N
C8013	A D 9N
C8014	A D 9N
C8021	A D 7N
C8022	A D 6N
C8023	A D 6N
C8024	B C 6N
C8025	A D 6N
C8026	B C 6N
C8027	A D 5N
C8028	B C 6N
C8201	B C 14J
C8202	A D 14J
C8203	B C 15I
C8204	B C 15J
C8205	B C 15J
C8206	B C 15K
C8207	B C 15J
C8208	B C 15J
C8209	B C 15J
C8210	A D 15J
C8211	B C 15J
C8212	A D 15J
C8215	A D 16I
C8216	A D 16I
C8217	A D 16K
C8218	A D 16J
C8219	B C 14K
C8401	A D 18C
C8402	B C 18C
C8501	A D 17C
C8502	B C 17B
C8503	A D 18C
C8504	B C 18C
C8505	B C 18B
C8506	B C 19B
CF6031	A D 13P
CONNECTOR	
CN3001	A D 5B
CN3002	A D 2N
CN3901	A D 3B
CN4001	A D 1O
CN4101	A D 7O
CN4102	A D 5O
CN4104	A D 21C
CN5101	A D 7A
CN5102	A D 3A
CN6201	A D 13I
CN6901	A D 13N
CN7001	A D 11A
CN7101	A D 21N
CN7102	A D 22I
DIODE	
D3002	A D 4J
D3003	A D 7B
D3004	A D 3N
D3005	A D 4N
D3007	B C 8F
D4001	B C 16E
D4002	B C 15E
D6002	A D 15P
D7001	A D 15B
D7021	A D 13A
D7031	A D 13A
D7032	A D 10C
D7033	A D 10C
D7034	A D 10C
D7035	A D 11C
D7042	A D 14C
D7043	A D 8C
D7112	A D 20M
D7113	A D 20M
D7114	A D 20K
D7115	A D 19I
D7123	A D 20N
D7124	A D 19G
D7125	A D 20G
D7126	A D 19H
D7127	A D 20H
D8001	B C 7L
D8201	A D 13K
D8202	A D 13L
DI7001	A D 12C
IC	
IC3001	B C 4F
IC3002	B C 3H
IC3003	B C 2H
IC3004	B C 7I
IC4001	B C 15F
IC4003	B C 16E
IC4101	B C 16L
IC6501	B C 16N
IC6601	B C 16N
IC6650	B C 14M
IC7001	B C 11B
IC7002	A D 16B
IC8001	B C 7M
IC8201	B C 14J
IC8202	B C 15J
IC8501	B C 17B
COIL	
L3001	A D 6B
L4001	A D 15H
L4002	A D 14H
L4003	A D 13F
L4004	A D 13F
L4006	A D 14H
L4007	A D 14F
L4008	A D 13G
L4101	A D 14L
L4102	A D 14L
L6001	A D 16O
L6003	A D 17O
L6005	A D 15O
L6032	A D 13O
L6033	A D 12P
L6501	A D 17N
L7001	A D 14A
L7201	A D 17D
L8001	A D 3L
L8002	A D 4N
L8501	A D 18C
TRANSISTOR	
Q3004	B C 7H
Q3009	B C 7F
Q3010	B C 8H
Q3901	B C 2G
Q4001	B C 13E
Q4003	B C 14E
Q4004	B C 15H
Q4005	B C 13F
Q4006	B C 13G
Q4101	B C 15L
Q6030	B C 12O
Q6031	B C 12P
Q6650	B C 13N
Q7001	A D 14C
Q7103	A D 20L
Q7104	A D 20L
Q7105	A D 20G
Q7106	A D 20J
Q7107	A D 20G
Q7201	A D 17E
Q7211	B C 17E
Q7212	B C 17E
Q8203	B C 17J
Q8204	B C 17I
Q8205	B C 17K
Q8206	B C 17J
Q8207	B C 13L
Q8208	B C 13L
RESISTOR	
R3012	B C 5E
R3017	B C 5F
R3018	B C 5E
R3020	B C 5E
R3021	B C 5F
R3024	B C 6F
R3025	B C 6F
R3026	B C 6F
R3028	B C 6F
R3029	B C 6F
R3030	B C 6F
R3031	B C 6F
R3032	B C 7F
R3033	B C 7G
R3034	B C 7G
R3035	B C 7G
R3036	B C 7G
R3037	B C 7G
R3038	B C 7G
R3039	B C 7H
R3040	B C 7H
R3041	B C 7H
R3042	B C 7H
R3044	B C 6H
R3046	B C 6H
R3047	B C 6H
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R3060	B C 4H
R3061	B C 4H
R3062	B C 3H
R3063	B C 3H
R3066	B C 3H
R3069	B C 3G
R3070	B C 2F
R3071	B C 3G
R3072	B C 2E
R3074	B C 2E
R3075	B C 2F
R3076	B C 2F
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R3081	B C 2F
R3083	B C 2F
R3085	B C 3F
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R3091	B C 3E
R3092	B C 3E
R3093	B C 3E
R3094	B C 3E
R3095	B C 3E
R3096	B C 3D
R3097	B C 3D
R3213	B C 7H
R3214	B C 7H
R3218	B C 7A
R3219	B C 8H
R3220	B C 7H
R3223	B C 2F
R3224	B C 2F
R3229	B C 3G
R3230	B C 3H
R3231	B C 3H
R3233	B C 7F
R3235	B C 6H
R3236	B C 6H
R3237	B C 6H
R3238	B C 5E
R3239	B C 4I
R3240	B C 4H
R3246	B C 5F
R3251	B C 6H
R3252	B C 5E
R3256	B C 4H
R3257	B C 4H
R3258	B C 4H
R3260	B C 6F
R4001	B C 15E
R4002	B C 15E
R4003	B C 16E
R4004	B C 16E
R4005	B C 17F
R4006	B C 16F
R4007	B C 17F
R4008	B C 17G
R4009	B C 16G
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R4011	B C 14G
R4012	B C 14G
R4013	B C 14F
R4014	B C 14F
R4015	B C 15E
R4016	B C 15E
R4017	B C 13E
R4018	B C 13F
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R4027	B C 14E
R4028	B C 14E
R4029	B C 14E
R4030	B C 16E
R4031	B C 17E
R4032	B C 15H
R4033	B C 15H
R4034	B C 15H
R4035	B C 15H
R4036	B C 1P
R4040	B C 1P
R4041	B C 1P
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R4044	B C 13F
R4045	B C 13F
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R4048	B C 13G
R4049	B C 18G
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R4052	B C 18G
R4053	B C 18F
R4054	B C 17F
R4055	B C 18F
R4056	B C 17F
R4057	B C 18H
R4058	B C 18H
R4059	B C 18H
R4060	B C 18H
R4101	B C 14L
R4102	B C 15L
R4118	B C 17L
R4119	B C 18L
R4120	B C 18K
R4121	B C 18L
R4122	B C 18K
R4123	B C 18J
R4124	B C 18J
R4125	B C 18K
R4126	B C 18K
R4127	B C 18L
R4128	B C 18J
R4129	B C 18J
R4130	B C 17I
R4131	B C 18J
R4132	B C 18N
R4133	B C 19N
R4134	B C 17N
R4135	B C 18N
R4136	B C 17N
R4137	B C 18N
R4138	B C 18M
R4139	B C 18M
R4140	B C 18M
R6020	B C 16P
R6021	B C 16P
R6030	B C 12O
R6031	B C 13O
R6032	B C 14P
R6033	B C 14P
R6034	B C 12O
R6035	B C 12P
R6501	B C 17M
R6502	B C 17N
R6503	B C 16N
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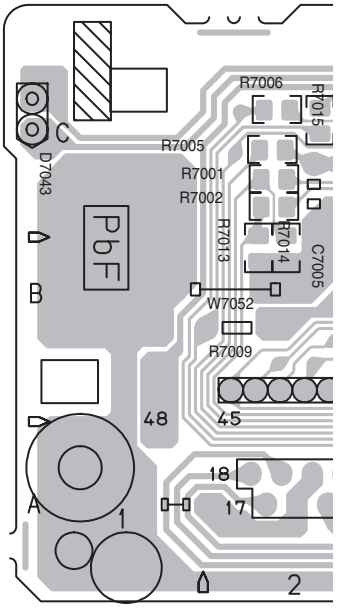
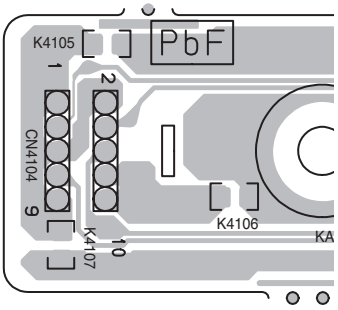
R6510	B C 14O
R6511	B C 14O
R6512	B C 14N
R6515	B C 16M
R6516	B C 17N
R6650	B C 13N
R6651	B C 14N
R6652	B C 14N
R6653	B C 14N
R6654	B C 14N
R6655	B C 13N
R6656	B C 14N
R6657	B C 13M
R7001	B C 10C
R7002	B C 10C
R7003	B C 11C
R7005	B C 9C
R7006	B C 10C
R7007	B C 10C
R7009	A D 9B
R7010	B C 13A
R7013	B C 9B
R7014	B C 10B
R7015	B C 10C
R7016	A D 16B
R7021	A D 14A
R7044	A D 15C
R7045	A D 14C
R7047	A D 14C
R7106	A D 20M
R7107	A D 20M
R7108	A D 19G
R7109	A D 20F
R7110	A D 20F
R7111	A D 20F
R7112	A D 19H
R7113	A D 19H
R7114	A D 20H
R7115	A D 20H
R7151	B C 21M
R7152	B C 21M
R7153	B C 21L
R7154	B C 21K
R7155	B C 21J
R7156	B C 22K
R7202	B C 18D
R7203	B C 18D
R7204	A D 17F
R7205	B C 18D
R7211	B C 17E
R7212	B C 18F
R7213	B C 18E
R8001	B C 7L
R8002	B C 9N
R8003	B C 8L
R8004	B C 9N
R8007	B C 8M
R8008	B C 8N
R8013	B C 8M
R8014	B C 8N
R8015	B C 8M
R8016	B C 8N
R8017	B C 7L
R8018	B C 8L
R8019	B C 7M
R8020	B C 8M
R8021	B C 8M
R8022	B C 8N
R8023	B C 8N
R8024	B C 7N
R8025	B C 8N
R8026	B C 9N
R8031	B C 7N
R8032	B C 6N
R8033	B C 5M
R8034	B C 6M
R8035	B C 5M
R8036	B C 5L
R8039	B C 6M
R8040	B C 6L
R8041	B C 6L
R8042	B C 6K
R8043	B C 7L
R8044	B C 6L
R8045	B C 6M
R8046	B C 6L
R8047	B C 6M
R8201	B C 13K
R8202	B C 13K
R8203	B C 12K
R8204	B C 12K
R8206	B C 13K
R8211	B C 14I
R8212	B C 14I
R8213	B C 15I
R8214	B C 14J
R8215	B C 15I
R8216	B C 15J
R8217	B C 15K
R8218	B C 15K
R8219	B C 15J
R8220	B C 15K
R8221	B C 15J
R8222	B C 15K
R8223	B C 16J
R8224	B C 16J
R8233	B C 15K
R8234	B C 15K
R8241	B C 16I
R8242	B C 16J
R8244	B C 17J
R8245	B C 16I
R8246	B C 17I
R8248	B C 17I
R8249	B C 17J
R8250	B C 16K
R8252	B C 17K
R8253	B C 16J
R8254	B C 16J
R8256	B C 17J
R8501	B C 18C
R8502	B C 17B
R8503	B C 18B
R8504	B C 18C
R8505	B C 19C
R8506	B C 18B
R8507	B C 18B
OTHER	
GN1	A D 10P
GN2	A D 2P
GN3	A D 9P
GN4	A D 4C
GN5	A D 18O
J4002	A D 19G
J4003	A D 19F
J4101	A D 19H
J4102	A D 19L
J4103	A D 19J
J4104	A D 19I
J4105	A D 19M
J4106	A D 19N
J4112	A D 22H
J7001	A D 21M
J7002	A D 21K
J7201	A D 19E
J7202	A D 19D
J8401	A D 19C
J8501	A D 19B
K4101	B C 22G
K4102	B C 22G
K4103	B C 21H
K4104	B C 21H
K4105	B C 21C
K4106	B C 22D
K4107	B C 22C
K8201	B C 14J
K8501	B C 19B
KA4101	B C 21E
KA4102	B C 22E
PC0954	B C 22Q
PC0958	B C 1A
S7001	A D 16A
S7113	A D 20G
S7114	A D 20H
S7115	A D 20I
S7132	A D 20N
S7133	A D 20L
S7134	A D 20K
S7135	A D 20J
TP3901	B C 6G
TP3902	B C 6G
TP3903	B C 3H
TP3904	B C 3G
TP3905	B C 3H
TP3906	B C 4G
TP3907	B C 4H
TP3908	B C 4H
TU6001	A D 19P
X3001	A D 4G
X3002	A D 3G

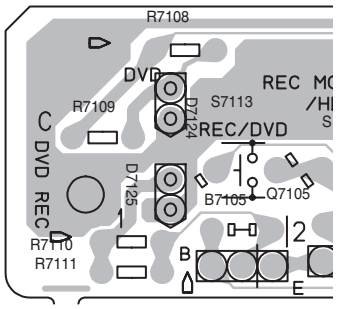
■ Switch display boar



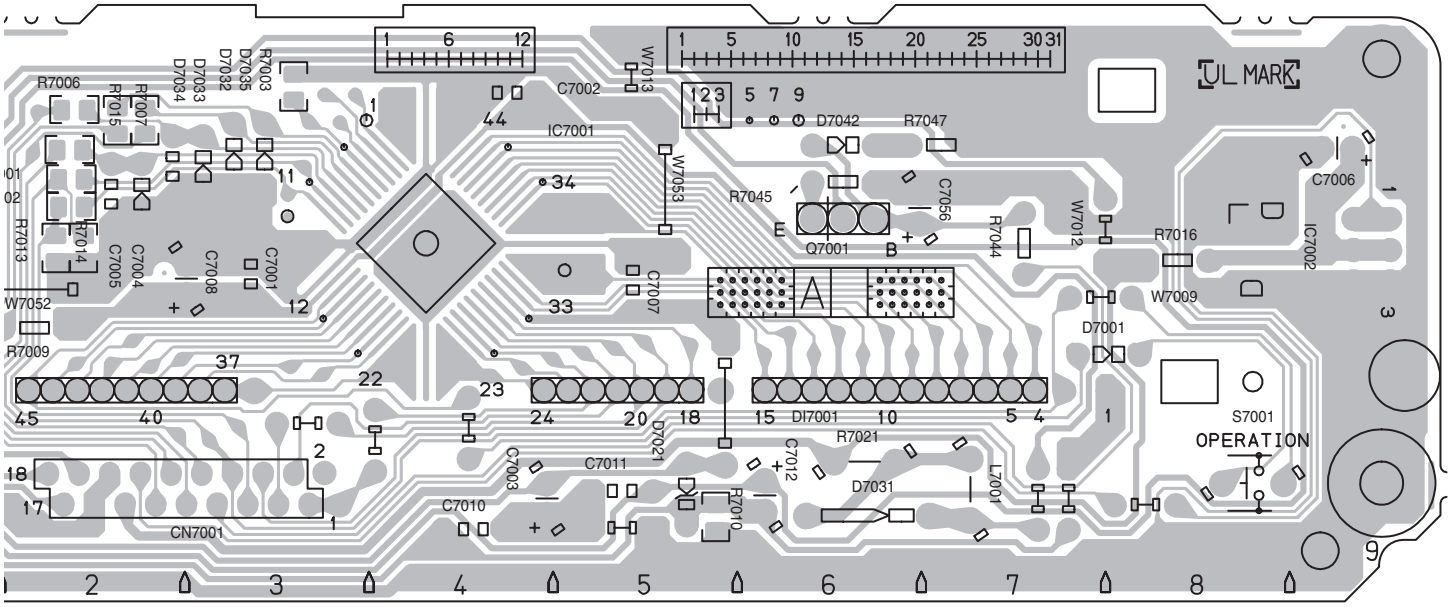
■ Jack board <36>



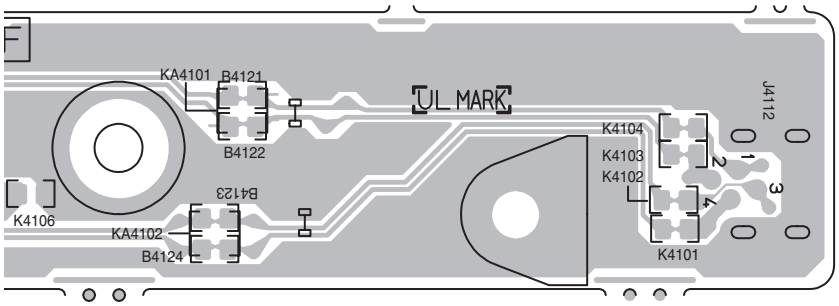
■ Operation board



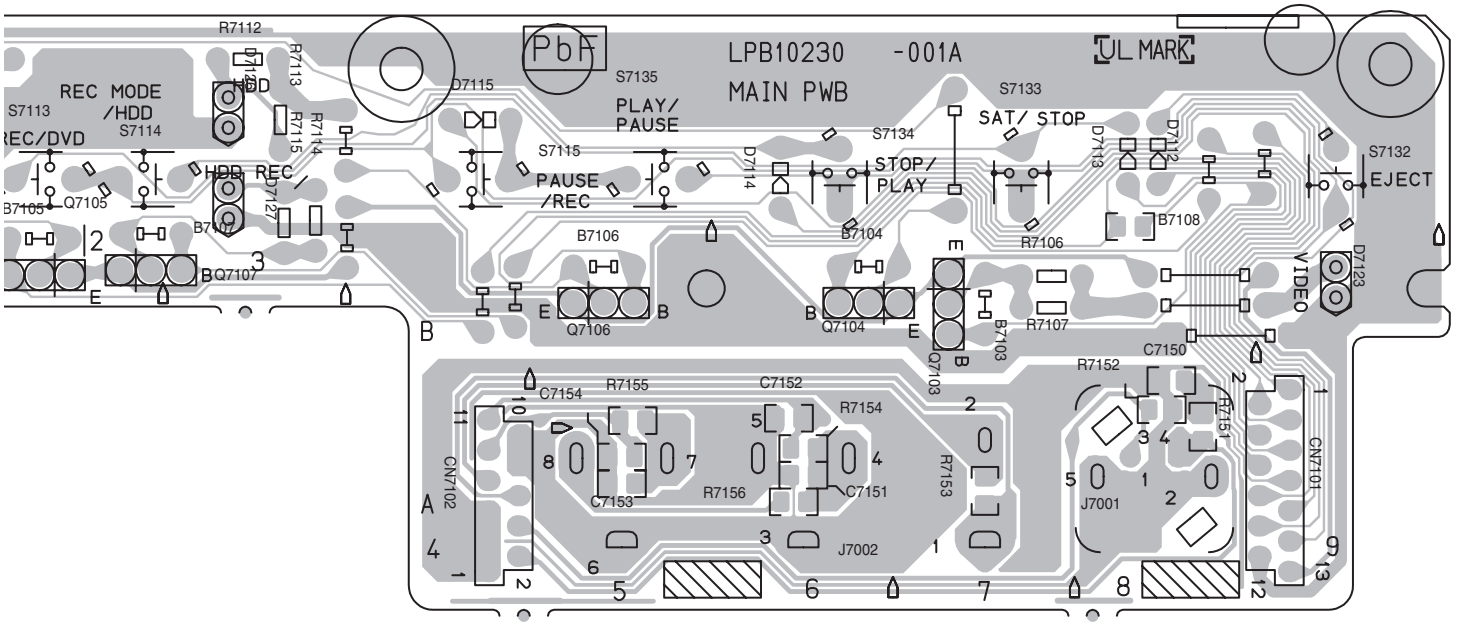
play board <28> LPB10230-001C



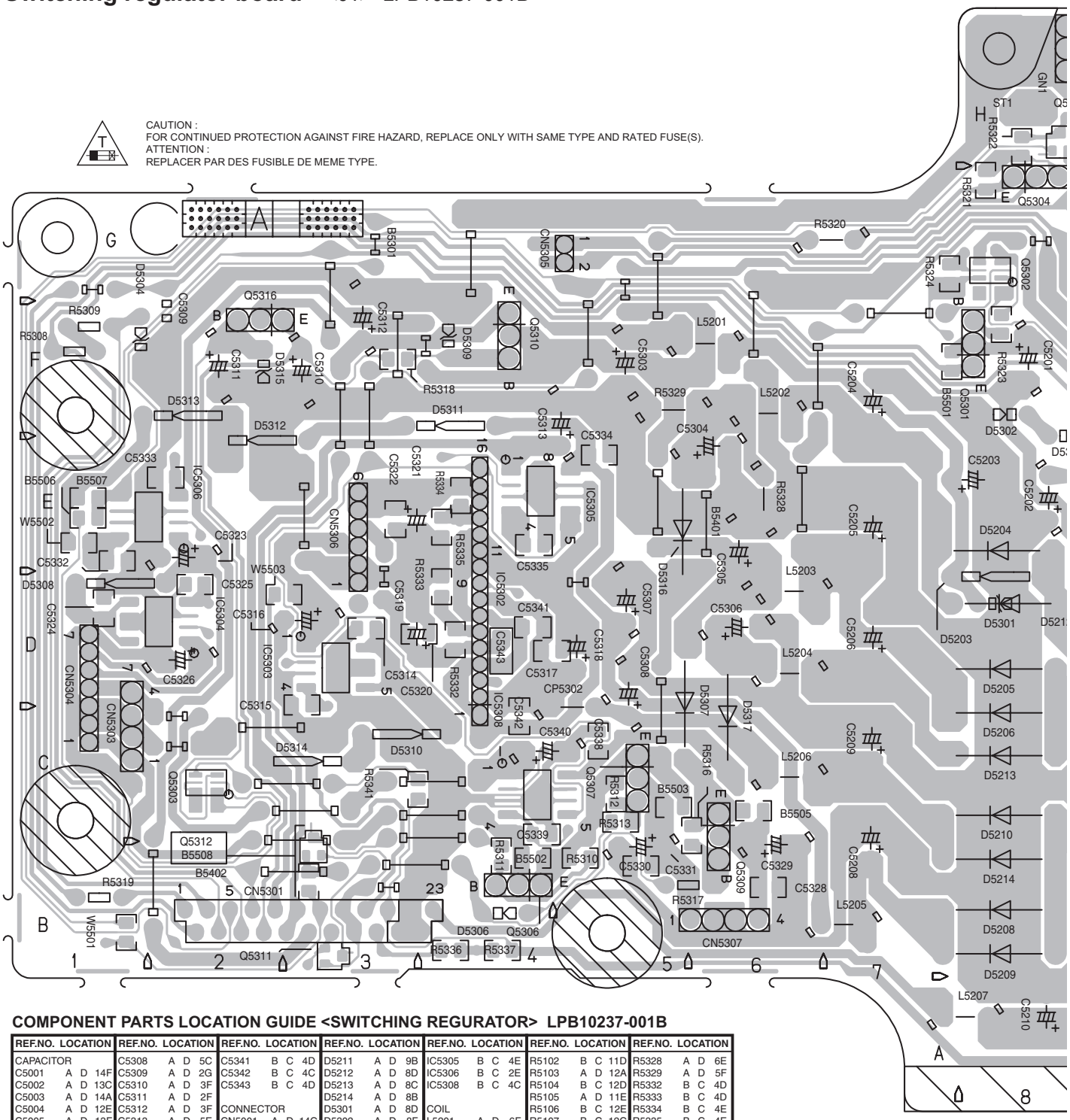
<36> LPB10230-001C



board <27> LPB10230-001C

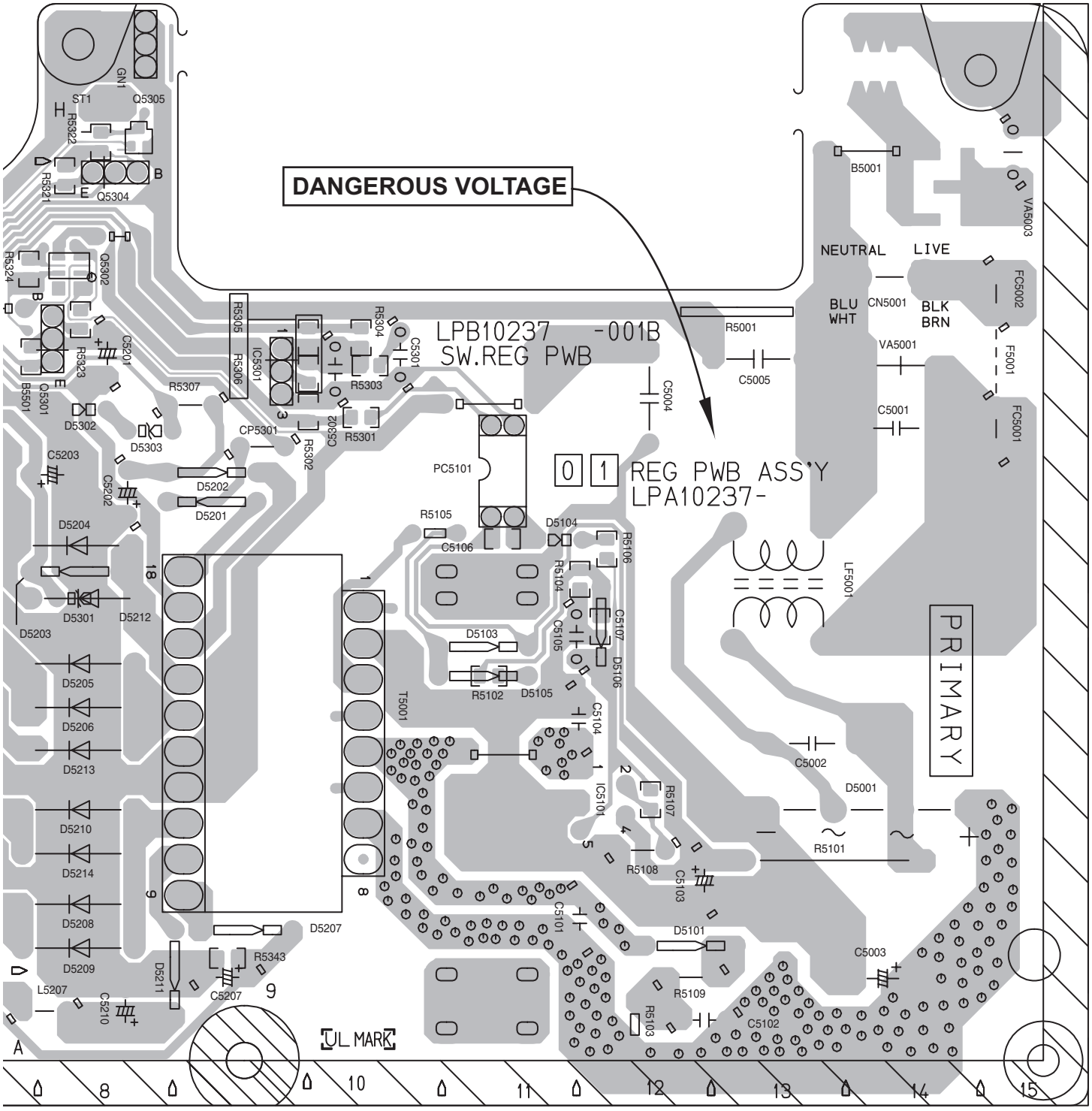


■ Switching regulator board <01> LPB10237-001B


CAUTION :
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S).
ATTENTION :
REPLACER PAR DES FUSIBLE DE MEME TYPE.

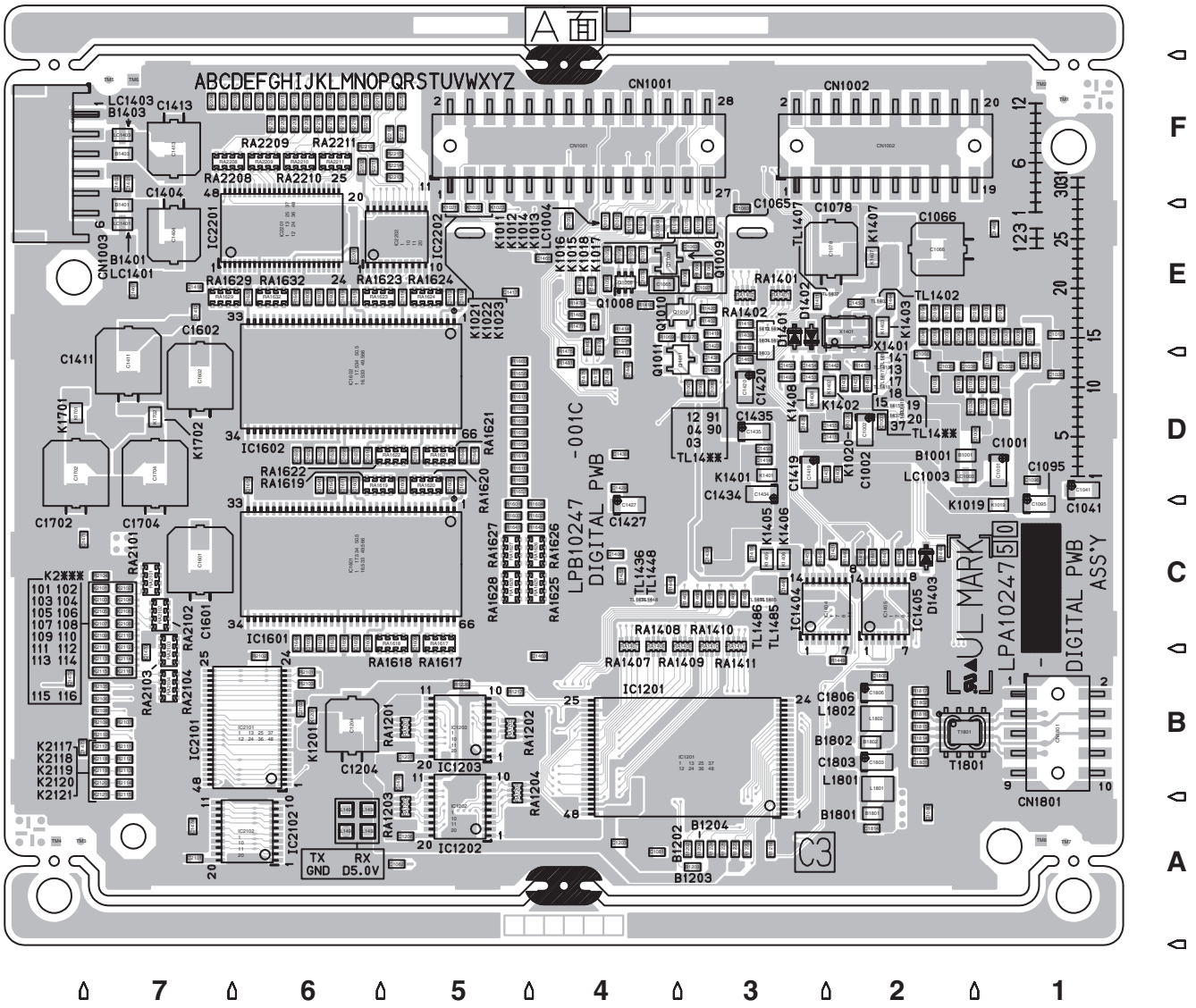
COMPONENT PARTS LOCATION GUIDE <SWITCHING REGURATOR> LPB10237-001B

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C5308	A D 5C	C5341	B C 4D	D5211	A D 9B	IC5305	B C 4E	R5102	B C 11D	R5328	A D 6E
C5001	A D 14F	C5309	A D 2G	C5342	B C 4C	D5212	A D 8D	IC5306	B C 2E	R5103	A D 12A	R5329	A D 5F
C5002	A D 13C	C5310	A D 3F	C5343	B C 4D	D5213	A D 8C	IC5308	B C 4C	R5104	B C 12D	R5332	B C 4D
C5003	A D 14A	C5311	A D 2F			D5214	A D 8B			R5105	A D 11E	R5333	B C 4D
C5004	A D 12E	C5312	A D 3F	CONNECTOR		D5301	A D 8D	COIL		R5106	B C 12E	R5334	B C 4E
C5005	A D 13F	C5313	A D 5E	CN5001	A D 14G	D5302	A D 8F	L5201	A D 6F	R5107	B C 12C	R5335	B C 4E
C5101	A D 12B	C5314	B C 3D	CN5301	A D 2B	D5303	A D 9F	L5202	A D 6F	R5108	A D 12B	R5336	B C 4B
C5102	A D 12A	C5315	B C 3D	CN5303	A D 1C	D5304	A D 1F	L5203	A D 6D	R5109	A D 13A	R5337	B C 4B
C5103	A D 12B	C5316	A D 3D	CN5304	A D 1C	D5306	A D 4B	L5204	A D 6D	R5301	B C 10F	R5341	B C 4C
C5104	A D 12C	C5317	B C 4D	CN5305	A D 5G	D5307	A D 5D	L5205	A D 7B	R5302	B C 10F	R5343	B C 9B
C5105	A D 12D	C5318	A D 5D	CN5306	A D 3D	D5308	A D 2D	L5206	A D 6C	R5303	B C 10F		
C5106	B C 11E	C5319	A D 3D	CN5307	A D 6B	D5309	A D 4F	L5207	A D 8A	R5304	B C 10F	OTHER	
C5107	B C 12D	C5320	B C 4D			D5310	A D 3C			R5305	B C 10F	CP5301	A D 9E
C5201	A D 8F	C5321	A D 3E	DIODE		D5311	A D 4F	TRANSISTOR		R5306	B C 10F	CP5302	A D 4C
C5202	A D 8E	C5322	B C 3E	D5001	A D 14C	D5312	A D 3E	Q5301	A D 8F	R5307	A D 8F	FC5001	A D 15E
C5203	A D 7E	C5323	A D 2E	D5101	A D 12B	D5313	A D 2F	Q5302	B C 8G	R5308	A D 1F	FC5002	A D 15G
C5204	A D 7F	C5324	B C 1D	D5103	A D 10D	D5314	A D 2C	Q5303	B C 2C	R5309	A D 1F	GN1	A D 8H
C5205	A D 7E	C5325	B C 2D	D5104	A D 11E	D5315	A D 2F	Q5304	A D 8G	R5310	B C 5B	LF5001	A D 13E
C5206	A D 7D	C5326	A D 2D	D5105	A D 10D	D5316	A D 5E	Q5305	B C 8H	R5311	B C 4B	PC5101	A D 11F
C5207	A D 9A	C5328	B C 6B	D5106	A D 12D	D5317	A D 6D	Q5306	A D 4B	R5312	B C 5C	SG5001	B C 14G
C5208	A D 7B	C5329	A D 6B	D5201	A D 9E			Q5307	A D 5C	R5313	B C 5C	T5001	A D 10D
C5209	A D 7C	C5330	B C 5B	D5202	A D 8E	FUSE		Q5309	A D 6C	R5316	B C 6C	VA5001	A D 14F
C5210	A D 8A	C5331	A D 5B	D5203	A D 8D	F5001	A D 15G	Q5310	A D 4F	R5317	A D 6B	VA5003	A D 15G
C5301	A D 10F	C5332	B C 1E	D5204	A D 8E			Q5311	B C 3B	R5318	B C 3F		
C5302	A D 10F	C5333	B C 2E	D5205	A D 8D	IC		Q5312	B C 3B	R5319	A D 1B		
C5303	A D 5F	C5334	B C 5E	D5206	A D 8C	IC5101	A D 12C	Q5316	A D 3F	R5320	A D 6G		
C5304	A D 5E	C5335	B C 4E	D5207	A D 9B	IC5301	A D 9F			R5321	B C 8G		
C5305	A D 6D	C5338	B C 5C	D5208	A D 8B	IC5302	A D 4C	RESISTOR		R5322	B C 8H		
C5306	A D 6D	C5339	B C 4C	D5209	A D 8B	IC5303	B C 3D	R5001	A D 13F	R5323	B C 8F		
C5307	A D 5D	C5340	A D 4C	D5210	A D 8C	IC5304	B C 2D	R5101	A D 14B	R5324	B C 7G		

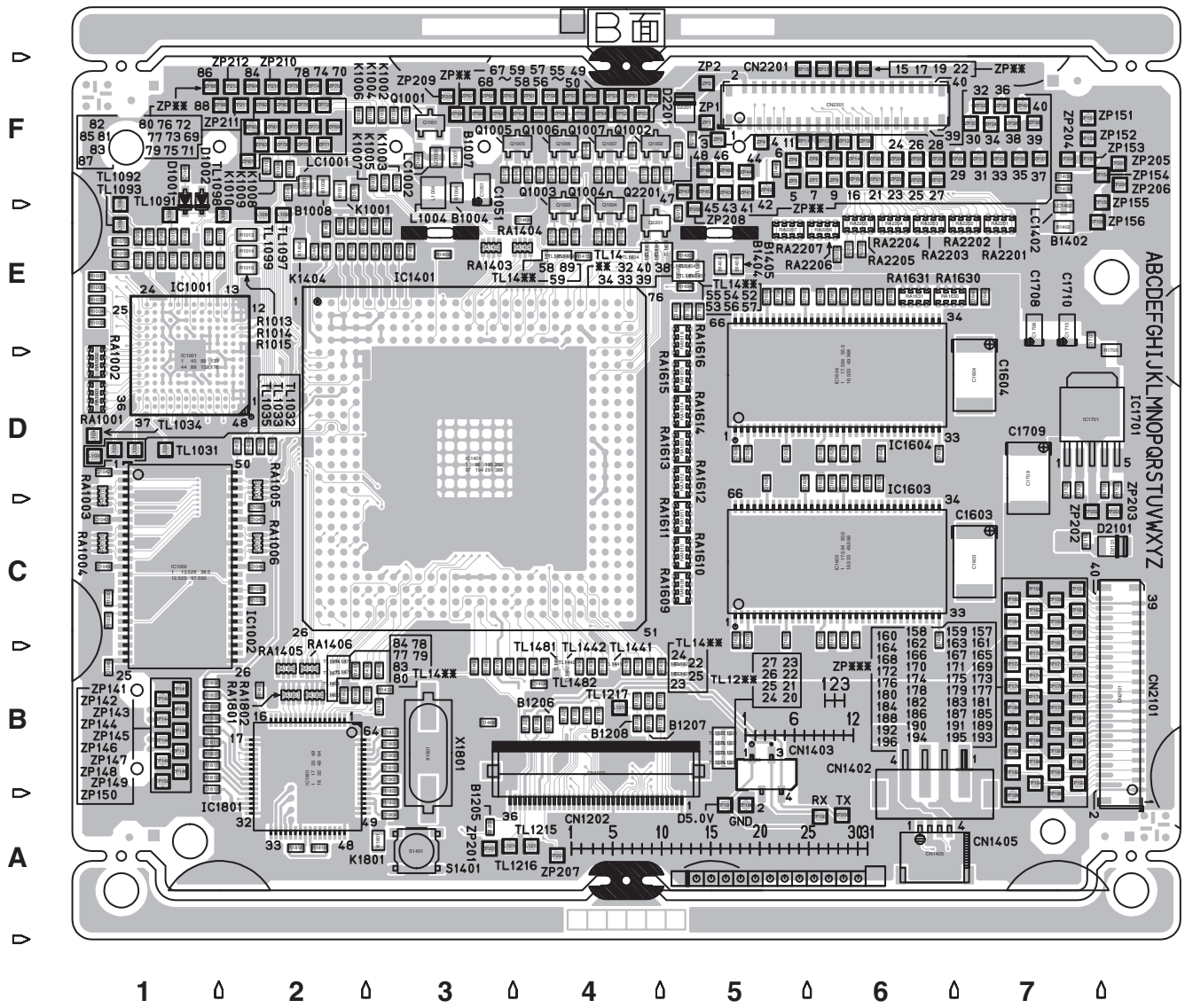

DANGEROUS VOLTAGE
LPB10237 -001B
SW.REG PWB
01 REG PWB ASS'Y
LPA10237-
PRIMARY
NEUTRAL
LIVE
BLU
WHT
BLK
BRN
CN5001
B5001
VA5003
VA5001
FC5002
FC5001
F5001
C5001
C5005
C5004
R5001
LF5001
PC5101
R5105
C5106
D5104
R5106
R5104
C5105
C5107
D5106
D5103
R5102
D5105
T5001
C5104
IC5101
R5107
R5108
C5103
C5101
D5101
R5109
R5103
C5102
C5003
C5002
D5001
R5101
GN1
ST1
Q5305
Q5304
R5322
R5321
Q5302
R5324
R5323
Q5301
B5501
C5201
R5305
R5306
IC5501
R5304
C5301
R5303
C5302
R5301
R5307
D5302
D5303
CP5301
R5302
C5203
C5202
D5202
D5201
D5204
D5301
D5212
D5203
D5205
D5206
D5213
D5210
D5214
D5208
D5209
L5207
C5210
D5211
R5343
C5207
D5207
UL MARK

■ Digital board <02> LPB10247-001C

Forward side



Reverse side



COMPONENT PARTS LOCATION GUIDE <DIGITAL> LPB10247-001C

REF.NO.	LOCATION
CAPACITOR	
C1001	A C 1D
C1002	A C 2D
C1003	A C 2D
C1004	A C 1D
C1005	A C 1E
C1007	A C 1E
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C1012	A C 1E
C1014	A C 1D
C1015	A C 1E
C1017	B C 1E
C1018	B C 1E
C1019	B C 1E
C1020	A C 1D
C1022	B C 1E
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C1032	A C 1D
C1033	A C 2D
C1034	A C 1D
C1035	A C 2D
C1036	A C 2D
C1038	A C 1D
C1039	A C 2D
C1041	A C 1D
C1042	B C 1D
C1043	B C 1C
C1044	B C 1C
C1045	B C 1B
C1046	B C 2C
C1047	B C 2C
C1048	B C 3F
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C1065	A C 4E
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C1071	B C 4E
C1072	B C 4E
C1073	B C 3F
C1074	B C 4F
C1075	B C 4F
C1076	A C 4E
C1077	A C 4E
C1078	A C 2E
C1079	B C 2F
C1080	A C 2A
C1081	A C 4A
C1082	A C 5A
C1083	A C 3E
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C1418	A C 7E
C1419	A C 3D
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C1421	A C 2C
C1422	A C 4C
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C1425	A C 3D
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C1428	A C 4E
C1429	A C 4D
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C1434	A C 3D
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C1442	A C 2D
C1444	A C 2E
C1445	A C 3C
C1446	A C 4D
C1447	B C 2E
C1448	B C 2E

REF.NO.	LOCATION
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C1453	A C 3D
C1454	A C 3D
C1455	A C 2D
C1456	A C 3D
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C1459	B C 4B
C1461	A C 1E
C1463	A C 3D
C1464	B C 4E
C1465	A C 4E
C1466	B C 5F
C1467	A C 7E
C1468	B C 3B
C1469	A C 4B
C1470	A C 7B
C1471	A C 8C
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C1473	A C 8B
C1474	A C 7A
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C1645	B C 7E
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C1813	B C 3B
C1814	A C 2A
C2101	A C 7A
C2102	A C 6B
C2201	A C 6E
C2202	A C 6F
CONNECTOR	
CN1001	A C 4F
CN1002	A C 2F
CN1003	A C 8F
CN1202	B C 4B
CN1402	B C 7B
CN1403	B C 5B

REF.NO.	LOCATION
CN1405	B C 6A
CN1801	A C 1B
CN2101	B C 8B
CN2201	B C 6F
DIODE	
D1001	B C 1F
D1002	B C 1F
D1401	A C 3E
D1402	A C 3E
D1403	A C 2C
D2101	B C 8C
D2201	B C 5F
IC	
IC1001	B C 1D
IC1002	B C 1C
IC1201	A C 3B
IC1202	A C 5A
IC1203	A C 5B
IC1401	B C 3D
IC1404	A C 3C
IC1405	A C 2C
IC1601	A C 6C
IC1602	A C 6D
IC1603	B C 6C
IC1604	B C 6D
IC1701	B C 7D
IC1801	B C 2B
IC2101	A C 6B
IC2102	A C 6A
IC2201	A C 6E
IC2202	A C 5E
COIL	
L1004	B C 3F
L1801	A C 2B
L1802	A C 2B
TRANSISTOR	
Q1001	B C 3F
Q1002	B C 4F
Q1003	B C 4E
Q1004	B C 4E
Q1005	B C 4F
Q1006	B C 4F
Q1007	B C 4F
Q1008	A C 4E
Q1009	A C 4E
Q1010	A C 3E
Q1011	A C 3D
Q2201	B C 4E
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R1009	B C 1E
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R1014	B C 2E
R1015	B C 2E
R1017	B C 2E
R1018	B C 1E
R1019	B C 1E
R1020	B C 1E
R1021	A C 1D
R1022	A C 1D
R1024	A C 2D
R1027	A C 2E
R1028	A C 2E
R1029	B C 2E
R1030	B C 1C
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R1035	B C 5F
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R1037	B C 4F
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R1039	B C 4E
R1040	B C 4E
R1041	B C 4E
R1042	B C 4E
R1043	B C 4E
R1044	B C 4F
R1045	B C 4F
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R1047	B C 4F
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R1054	A C 2E
R1055	B C 4F
R1056	A C 4E
R1057	A C 4E
R1059	A C 4E
R1060	B C 1E
R1061	B C 1E
R1062	A C 3E
R1065	A C 3D
R1066	A C 3E
R1067	A C 3D
R1068	A C 3E
R1069	A C 4E
R1070	A C 3E
R1071	A C 2E
R1072	B C 1E

REF.NO.	LOCATION
R1216	A C 3A
R1217	A C 5B
R1218	B C 4B
R1219	B C 4B
R1220	B C 4B
R1221	B C 4B
R1222	A C 3A
R1223	A C 3A
R1224	A C 3A
R1225	A C 3A
R1226	A C 5B
R1227	B C 4B
R1228	B C 4B
R1229	B C 4B
R1230	B C 5B
R1231	B C 5B
R1401	B C 2E
R1402	A C 3E
R1408	A C 2D
R1409	A C 3E
R1410	A C 3E
R1411	A C 3E
R1412	A C 3E
R1413	A C 2D
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R1423	B C 2E
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R1447	A C 2C
R1448	A C 2C
R1449	A C 2B
R1450	B C 3B
R1451	B C 2B
R1452	B C 3B
R1453	B C 4B
R1458	A C 3C
R1459	A C 3C
R1460	B C 3B
R1461	A C 3C
R1462	B C 3B
R1465	B C 3B
R1466	A C 3C
R1467	A C 3C
R1468	A C 3C
R1469	B C 3E
R1470	B C 4B
R1471	B C 3B
R1472	B C 4B
R1473	A C 4D
R1474	A C 4E
R1475	A C 4E
R1476	A C 4E
R1477	A C 4E
R1478	A C 4E
R1479	A C 4D
R1480	A C 4E
R1481	A C 4D
R1482	A C 4E
R1483	A C 4E
R1485	B C 2E
R1486	B C 2E
R1487	B C 2E
R1488	B C 3E
R1489	B C 3E
R1490	B C 3E
R1491	A C 2D
R1492	B C 4B
R1493	A C 3D
R1494	B C 5E
R1495	B C 5E
R1601	A C 5C
R1602	A C 4C
R1603	A C 5C
R1604	A C 4C
R1605	B C 6E
R1606	A C 6E
R1607	A C 6E
R1608	A C 6E
R1613	A C 5D
R1614	A C 5D
R1615	A C 5D
R1616	A C 5D
R1617	B C 6C
R1618	B C 6D
R1619	B C 6C
R1620	B C 6D
R1621	A C 6C
R1622	A C 6C
R1623	B C 6D

REF.NO.	LOCATION
R1624	B C 6E
R1625	B C 6D
R1626	B C 6E
R1627	A C 6D
R1628	A C 6D
R1629	B C 6D
R1630	B C 6D
R1631	B C 6E
R1632	B C 6E
R1641	A C 5C
R1642	A C 4C
R1643	B C 6D
R1644	A C 6E
R1653	A C 5D
R1654	A C 5D
R1655	A C 5D
R1656	A C 5D
R1657	A C 5D
R1658	A C 5D
R1659	A C 5D
R1660	A C 5D
R1701	B C 8D
R1702	B C 8D
R1703	B C 5E
R1704	B C 5E
R1705	B C 8E
R1801	B C 3B
R1802	B C 3B
R1803	B C 2B
R1804	B C 2B
R1805	B C 2B
R1806	B C 1B
R1807	B C 1B
R1808	B C 1B
R1809	B C 1B
R1810	B C 1B
R1811	B C 1B
R1812	B C 1B
R1813	A C 2B
R1814	A C 2B
R1815	A C 2B
R1816	A C 2B
R1817	A C 2B
R1818	B C 2A
R1819	B C 2A
R1820	B C 3A
R1821	B C 1B
R1822	B C 3B
R2101	A C 6B
R2102	A C 6B
R2103	A C 6B
R2104	A C 7C
R2105	A C 7B
R2106	A C 7B
R2107	A C 7B
R2108	A C 7B
R2109	A C 7B
R2110	A C 7B
R2111	A C 7B
R2112	A C 7B
R2113	A C 7B
R2114	A C 7B
R2115	A C 7B
R2116	B C 7C
R2201	B C 6E
R2202	B C 6E
R2203	B C 6E
R2204	A C 7F
R2205	A C 6F
R2206	A C 6F
R2207	A C 6F
R2208	A C 6F
R2209	A C 6F
R2210	A C 6F
R2211	A C 6F
R2212	A C 6F
R2213	A C 5F
R2214	A C 5F
R2215	A C 5F
R2216	B C 5F
R2217	B C 5E
OTHER	
K1001	B C 2F
K1002	B C 3F
K1003	B C 3F
K1004	B C 3F
K1005	B C 3F
K1006	B C 2F
K1007	B C 3F
K1008	B C 2F
K1009	B C 2F
K1010	B C 2F
K1011	A C 4E
K1012	A C 4E
K1013	A C 4E
K1014	A C 4E
K1015	A C 3E
K1016	A C 4E
K1017	A C 3E
K1018	A C 3E
K1019	A C 1C
K1020	A C 2D
K1021	A C 5E
K1022	A C 5E
K1023	A C 5E
K1201	A C 6B
K1401	A C 3D
K1402	A C 2D
K1403	A C 2E
K1404	B C 2E
K1405	A C 3C
K1406	A C 3C
K1407	A C 2E
K1408	A C 3D

REF.NO.	LOCATION
K1701	A C 8D
K1702	A C 7D
K1801	B C 3A
K2101	A C 7C
K2102	A C 7C
K2103	A C 7C
K2104	A C 7C
K2105	A C 7C
K2106	A C 7C
K2107	A C 7C
K2108	A C 7C
K2109	A C 7C
K2110	A C 7C
K2111	A C 7C
K2112	A C 7C
K2113	A C 7B
K2114	A C 7B
K2115	A C 7B
K2116	A C 7B
K2117	A C 7B
K2118	A C 7B
K2119	A C 7B
K2120	A C 7B
K2121	A C 7B
K2201	A C 7F
K2202	A C 6F
K2203	A C 6F
K2204	A C 6F
K2205	A C 6F
K2206	A C 6F
K2207	A C 6F
K2208	A C 6F
K2209	A C 6F
K2210	A C 6F
K2211	A C 6F
K2212	A C 6F
K2213	A C 6F
K2214	A C 6F
K2215	A C 6F
K2216	A C 6F
K2217	A C 6F
K2218	A C 5F
K2219	A C 5F
K2220	A C 5F
K2221	A C 5F
LC1001	B C 2F
LC1002	B C 3F
LC1003	A C 2D
LC1004	A C 4E
LC1401	A C 7E
LC1402	B C 7E
LC1403	A C 7F
RA1001	B C 1D
RA1002	B C 1D
RA1003	B C 1D
RA1004	B C 1C
RA1005	B C 2D
RA1006	B C 2C
RA1201	A C 5B
RA1202	A C 5B
RA1203	A C 5A
RA1204	A C 5B
RA1401	A C 3E
RA1402	A C 3E
RA1403	B C 3E
RA1404	B C 4E
RA1405	B C 2B
RA1406	B C 2B
RA1407	A C 4C
RA1408	A C 4C
RA1410	A C 3C
RA1411	A C 3C
RA1609	B C 5C
RA1610	B C 5C
RA1611	B C 5C
RA1612	B C 5D
RA1613	B C 5D
RA1614	B C 5D
RA1615	B C 5D
RA1616	B C 5E
RA1617	A C 5C
RA1618	A C 5C
RA1619	A C 6D
RA1620	A C 5D
RA1621	A C 5D
RA1622	A C 5D
RA1623	A C 6E
RA1624	A C 5E
RA1625	A C 4C
RA1626	A C 4C
RA1627	A C 5C
RA1628	A C 5C
RA1629	A C 7E
RA1630	B C 6E
RA1631	B C 6E
RA1632	A C 6E
RA1801	B C 2B
RA1802	B C 2B
RA2101	A C 7C
RA2102	A C 7C
RA2103	A C 7B
RA2104	A C 7B
RA2201	B C 7E
RA2202	B C 7E
RA2203	B C 6E
RA2204	B C 6E
RA2205	B C 6E
RA2206	B C 6E
RA2207	B C 5E
RA2208	A C 7F
RA2209	A C 6F
RA2210	A C 6F
RA2211	A C 6F
S1401	B C 3A

REF.NO.	LOCATION
T1801	A C 2B
TM1	A C 1F
TM2	A C 1F
TM3	A C 8A
TM4	A C 8A
TM5	A C 7F
TM6	A C 7F
TM7	A C 1A
TM8	A C 1A
X1401	A C 2E
X1801	B C 3B

■ VOLTAGE CHARTS

<SWITCHING REGULATOR>

MODE PIN NO.	P.ON
IC5101	
1	308.2
2	0
3	0
4	16.7
5	2.4
IC5301	
1	2.4
2	0
3	4.6
IC5302	
1	0
2	5.8
3	3.0
4	0
5	2.5
6	0.9
7	0
8	5.9
9	3.5
10	0
11	0
12	0
13	0.9
14	1.9
15	1.9
16	4.8
IC5303	
1	3.3
2	0
3	0
4	1.9
5	3.8
6	0
7	3.8
IC5305	
1	4.9
2	0
3	0
4	3.3
5	4.8
6	0
7	0
8	5.9
IC5308	
1	5.0
2	0
3	0
4	3.4
5	4.8
6	0
7	0
8	5.6
Q5301	
E	-14.4
C	-14.3
B	-13.5
Q5302	
1	0
2	0
3	5.5
4	5.7
5	0
6	0
Q5303	
1	0
2	4.9
3	11.6
4	11.7
5	0
6	0
Q5304	
E	11.0
C	11.0
B	10.3
Q5305	
E	0
C	0
B	0
Q5309	
E	5.0
C	4.9
B	4.3
Q5310	
E	5.0
C	5.6
B	5.8
Q5311	
E	0
C	0
B	4.5
Q5312	
E	0
C	0
B	4.8
Q5316	
E	11.0
C	12.0
B	11.7
CN5303	
1	12.1
2	0
3	0
4	5.0
CN5305	
1	11.0
2	0
CN5306	
1	-0.1
2	0
3	3.3
4	2.4
5	1.9
6	1.9
CN5307	
1	12.0
2	0
3	0
4	4.9

<MAIN>

MODE PIN NO.	P.ON
IC3001	
1	0
2	0
3	1.6
4	0
5	0.2
6	2.4
7	4.2
8	0
9	0
10	4.9
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	4.7
30	5.0
31	5.0
32	5.0
33	0
34	0
35	4.9
36	4.8
37	0
38	4.9
39	3.8
40	0
41	4.9
42	4.2
43	0
44	0
45	4.9
46	4.9
47	0
48	4.6
49	4.9
50	4.9
51	0
52	0
53	4.1
54	2.1
55	4.9
56	0
57	0
58	0
59	4.9
60	0.1
61	4.2
62	0
63	0
64	1.4
65	0.3
66	4.9
67	0
68	0
69	2.4
70	4.9
71	0
72	4.9
73	0
74	0
75	0
76	0
77	0
78	0
79	0
80	0
81	0
82	0
83	4.9
84	0
85	0
86	0
87	0
88	0
89	0
90	0
91	5.0
92	4.9
93	4.7
94	0
95	0
96	4.8
97	4.9
98	0
99	0.2
100	0.2
101	0
102	0
103	0.2
104	0.2
105	0
106	0
107	0
108	0
109	4.9
110	0
111	0
112	1.7
IC3002	
1	4.9
2	4.8
3	0
4	0
IC3004	
1	0
2	0
3	0
4	0
5	4.1
6	4.4
7	0
8	5.0
IC4001	
1	0
2	0
3	1.9
4	5.0
5	2.7
6	0
7	2.1
8	0
9	2.7
10	0.1
11	2.1
12	2.7
13	0
14	2.8
15	1.5
16	0
17	2.4
18	0
19	1.5
20	0
21	2.6
22	0
23	3.1
24	2.9
25	2.8
26	5.0
27	2.8
28	2.2
29	2.2
30	0.1
31	3.0
32	0
33	2.8
34	0.4
35	2.8
36	3.2
37	0
38	4.9
39	4.9
40	25.8
41	2.7
42	2.8
43	3.0
44	1.6
45	2.5
46	4.8
47	0.7
48	2.8
49	0
50	2.8
51	2.8
52	0
53	3.2
54	2.7
55	0
56	2.5
IC4003	
1	0
2	1.2
3	5.0
4	1.9
5	0
6	0
IC4101	
1	4.9
2	2.3
3	3.5
4	0
5	0
6	1.3
7	0
8	2.3
9	3.2
10	1.3
11	0
12	2.3
13	0
14	2.3
15	0
16	2.4
17	0
18	2.3
19	0
20	1.7
21	1.6
22	0
23	1.7
24	0
25	0
26	2.3
27	0
28	4.9
IC6601	
1	2.5
2	2.3
3	2.4
4	2.3
5	4.4
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0.1
14	0
15	0
16	3.3
17	0
18	4.0
19	0
20	1.6
21	0
22	0
23	2.3
24	0
IC6650	
1	2.5
2	0
3	0
4	0
5	2.4
6	3.1
7	0
8	4.9
IC8001	
1	2.3
2	0
3	2.4
4	0
5	2.4
6	0
7	2.4
8	0
9	2.4
10	2.4
11	2.3
12	2.3
13	2.3
14	2.4
15	2.4
16	0
17	0
18	2.4
19	0
20	3.2
21	0
22	1.6
23	1.6
24	1.6
25	3.1
26	0
27	3.0
28	0
29	0
30	0
31	2.5
32	2.4
33	0
34	3.2
35	0
36	2.4
37	0
38	2.4
39	0
40	0
41	0
42	2.4
43	0
44	2.4
IC8201	
1	1.6
2	0
3	0
4	1.6
5	3.2
6	0
7	0.1
8	0
9	2.4
10	0
11	2.3
12	2.3
13	0
14	0
15	4.8
16	0
IC8202	
1	0
2	1.2
3	1.2
4	0
5	1.1
6	1.3
7	0
8	11.1
Q3004	
E	0
C	0
B	0.7
Q3009	
E	0
C	4.9
B	0
Q3010	
E	0
C	5.0
B	0
Q3901	
E	0
C	4.9
B	0
Q4001	
E	2.8
C	0
B	2.2
Q4003	
E	1.8
C	5.0
B	2.4
Q4004	
E	1.5
C	0
B	0.8
Q4006	
E	1.7
C	5.0
B	2.3
Q4101	
E	1.6
C	0
B	0.9
Q6030	
E	2.5
C	0
B	1.9
Q6650	
E	0
C	5.0
B	0
Q7211	
E	0
C	5.0
B	0
Q7212	
E	1.8
C	0
B	3.6
Q8203	
E	0
C	0
B	-5.9
Q8204	
E	0
C	0
B	-5.9
Q8205	
E	0
C	0
B	-5.9
Q8206	
E	0
C	0
B	-5.9
Q8207	
1	0
2	4.8
3	0
Q8208	
1	4.9
2	-5.9
3	4.8
TU6001	
1	-
2	-
3	-
4	-
5	-
6	-
7	-
8	-
9	-
10	-
11	-
12	-
13	-
14	-
15	-
16	-
17	-
18	-
19	-
20	-
21	-
22	-
23	-
24	-
25	-
26	-
27	0
28	0
29	4.9
30	0
31	0
32	-
33	3.8
34	0
35	0
36	4.3
37	4.3
38	2.2
39	0
40	0
41	32.5
42	0
43	1.9
44	-
45	-
46	-
47	-
48	-
49	-
CN3001	
1	-15.7
2	-28.7
3	-19.8
4	0
5	0
6	5.0
7	4.9
8	4.5
9	4.9
10	0
11	3.8
12	0
13	0
14	0
15	-28.1
16	-28.1
17	-28.0
18	-25.7
CN3002	
1	5.0
2	0
3	0
4	0
5	-28.1
6	-28.1
7	-28.1
8	-25.7
9	4.9
10	0
11	5.0
12	5.0
13	0
CN3901	
1	0
2	4.9
3	0
4	4.9
5	0
6	4.8
CN4001	
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0.1
CN4101	
1	0
2	0
3	0
4	0
5	0
6	0.7
7	0
8	0
9	0
10	1.1
11	1.1
12	0
13	3.2
14	1.1
15	0
16	0
17	0
18	2.9
19	1.6
20	1.8
21	3.2
22	0
23	3.2
24	1.6
25	0
26	1.6
27	2.6
28	0
CN4102	
1	0
2	4.0
3	0
4	2.8
5	0
6	4.9
7	4.9
8	5.0
9	0
10	5.0
11	0
12	0
13	0.1
14	4.9
15	0
16	3.2
17	0
18	0
19	1.6
20	0
21	-
22	-
23	-
24	-
25	-
26	-
27	-
28	-
CN5101	
1	-
2	-
3	-
4	-
5	49.7
6	32.6
7	3.2
8	0
9	0
10	4.9
11	4.8
12	5.7
13	5.0
14	5.
15	4.9
16	10.6
17	4.9
18	12.0
19	4.8
20	-12.0
21	-28.6
22	-19.8
23	-15.7

<OPERATION>

MODE PIN NO.	P.ON
Q7104	
E	5.0
C	0
B	4.9
Q7105	
E	4.9
C	-0.1
B	5.0
Q7106	
E	5.0
C	4.9
B	0
Q7107	
E	5.0
C	-0.1
B	4.9

<DISPLAY>

MODE PIN NO.	P.ON
IC7001	
1	5.0
2	5.0
3	5.0
4	5.0
5	2.8
6	4.8
7	0
8	4.5
9	3.7
10	0
11	0
12	0
13	4.9
14	-25.8
15	0
16	-28.2
17	0
18	-23.5
19	0
20	-23.5
21	-25.8
22	-16.7
23	-16.5
24	-25.7
25	-25.8
26	-28.1
27	-28.1
28	-28.1
29	-28.7
30	-26.1
31	-26.1
32	-26.1
33	-26.1
34	-26.1
35	-26.0
36	-26.1
37	-25.8
38	-25.3
39	-25.1
40	-25.1
41	-25.2
42	-26.1
43	5.0
44	0
IC7002	
1	4.9
2	5.0
3	0

JVC

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No.YD026SCH

Printed in Japan
WPC

PARTS LIST

[DR-MH20SUC, DR-MH20SUJ, DR-MH30SUS, DR-MH30SUC,DR-MH30SUJ, DR-MH30STW]

* SAFETY PRECAUTION
  Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.
* BEWARE OF BOGUS PARTS
  Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.
* (x_) in a description column shows the number of the used part.

Area Suffix	
US	U.S.A.
UC	Canada
UJ	U.S.A. Militaly
TW	Taiwan

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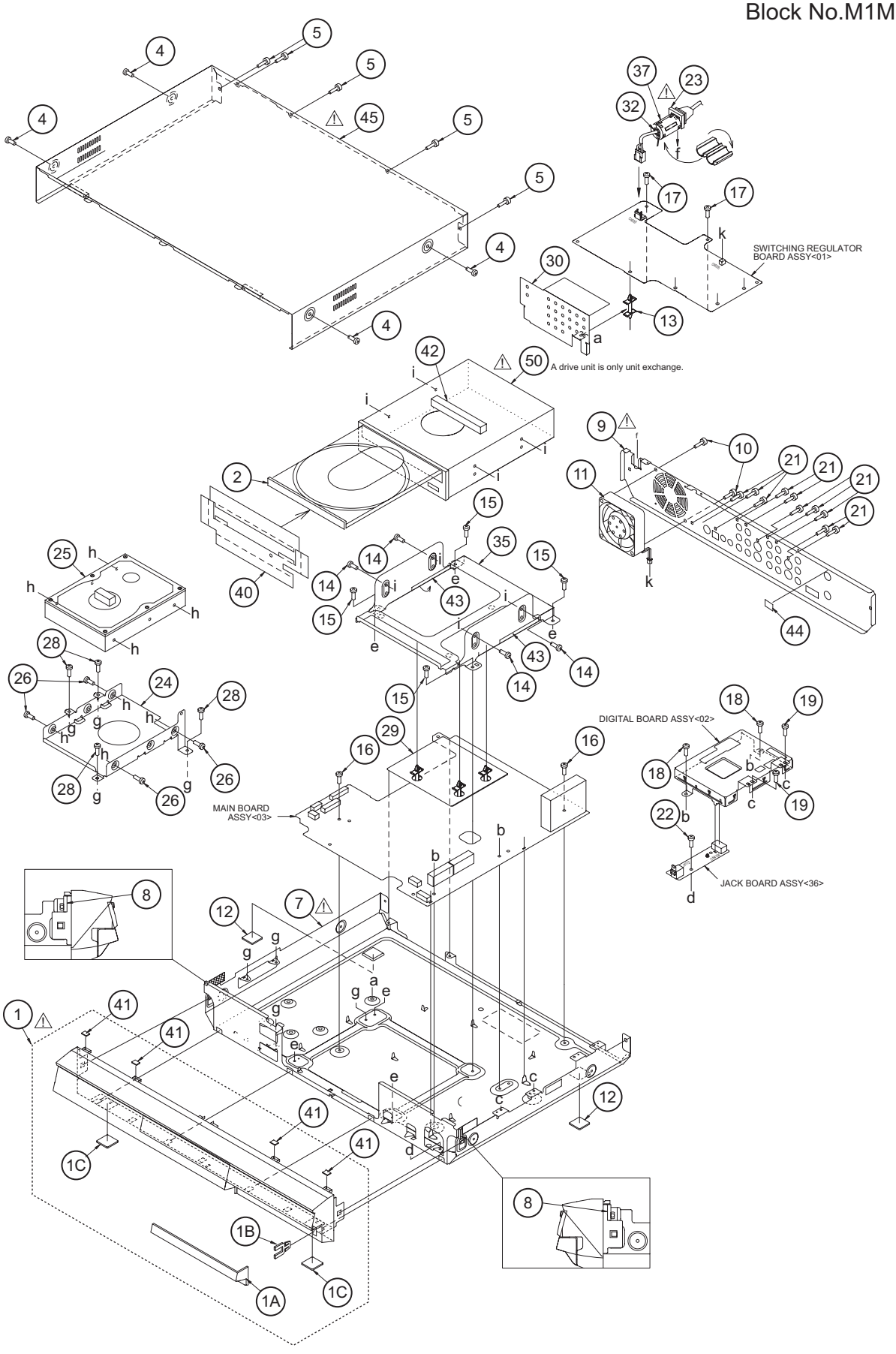
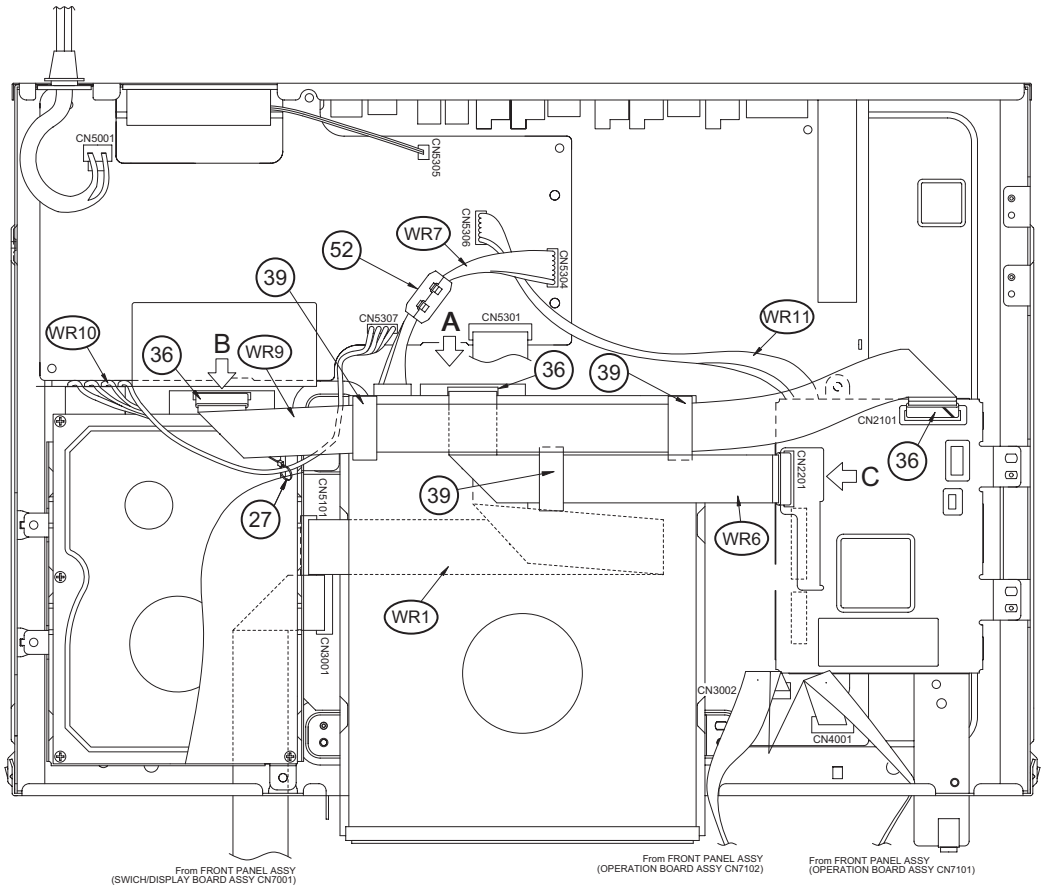
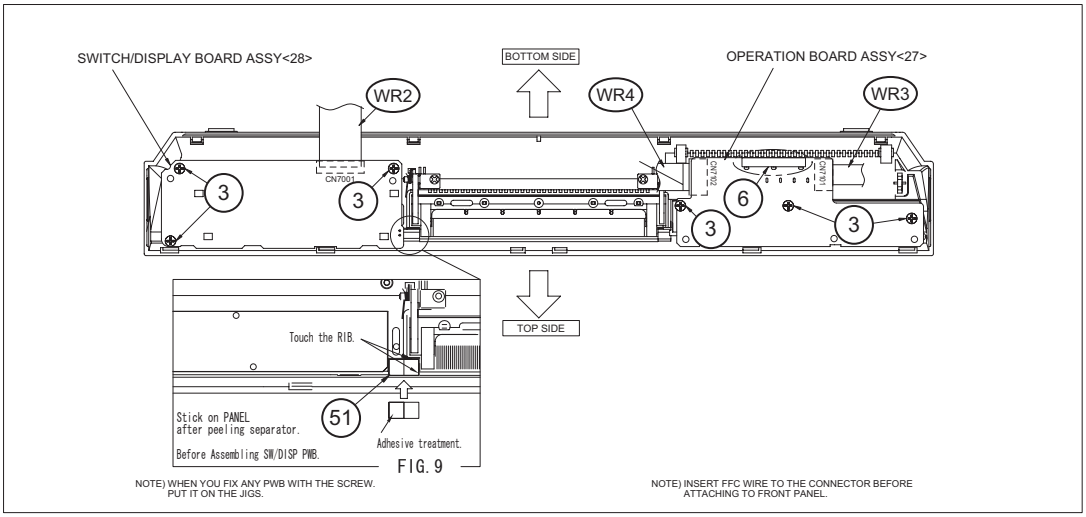
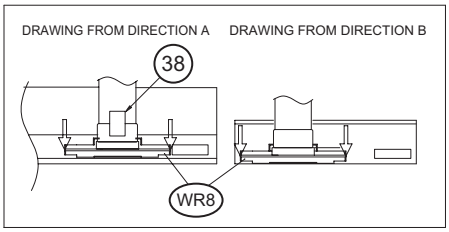
Exploded view of general assembly and parts list

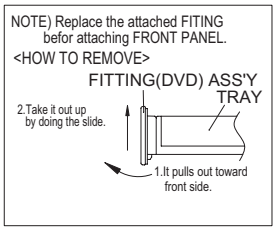
Block No.M1MM

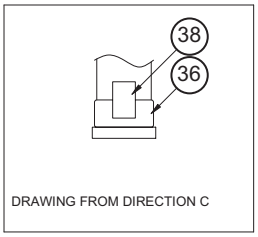



CN5001
CN5305
CN5306
CN5304
WR7
52
39
CN5307
A
CN5301
WR11
WR10
36
B
WR9
36
39
CN2101
36
C
CN2201
39
27
CN5101
WR6
WR1
CN3001
CN3002
CN4001
From FRONT PANEL ASSY
(SWICH/DISPLAY BOARD ASSY CN7001)
From FRONT PANEL ASSY
(OPERATION BOARD ASSY CN7102)
From FRONT PANEL ASSY
(OPERATION BOARD ASSY CN7101)


SWITCH/DISPLAY BOARD ASSY<28>
BOTTOM SIDE
OPERATION BOARD ASSY<27>
WR2
WR4
WR3
CN7001
CN7102
CN7101
3
3
6
3
3
TOP SIDE
Touch the RIB.
Stick on PANEL
after peeling separator.
51
Adhesive treatment.
Before Assembling SW/DISP PWB.
FIG. 9
NOTE) WHEN YOU FIX ANY PWB WITH THE SCREW.
PUT IT ON THE JIGS.
NOTE) INSERT FFC WIRE TO THE CONNECTOR BEFORE
ATTACHING TO FRONT PANEL.


DRAWING FROM DIRECTION A
DRAWING FROM DIRECTION B
38
WR8


NOTE) Replace the attached FITING
befor attaching FRONT PANEL.
<HOW TO REMOVE>
FITTING(DVD) ASS'Y
TRAY
2.Take it out up
by doing the slide.
1.It pulls out toward
front side.


38
36
DRAWING FROM DIRECTION C

General assembly

Block No. [M][1][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ 1	LP10533-008B	FRONT PANEL ASSY		20UC,20UJ
⚠ 1	LP10533-023B	FRONT PANEL ASSY		30TW
⚠ 1	LP10533-007C	FRONT PANEL ASSY		30UC,30UJ,30US
1A	LP21252-001A	DOOR		
1B	PU60109	CATCHER		
1C	LP31382-001A	FOOT	FRONT(x2)	
2	LP21347-002B	FITTING		
3	QYSDSF2608ZA	TAP SCREW	FRONT BOARD(x6)	30TW
3	QYTDSF2608ZA	TAP SCREW	FRONT BOARD(x6)	except ver.30TW
4	QYSBSG3006NA	TAP SCREW	TOP SIDE(x4)	
5	QYSBSG3006NA	TAP SCREW	TOP REAR(x5)	
6	LP41175-001A	SPACER		
⚠ 7	LP10538-004A	BOTTOM CHASSIS		
8	LP30002-0G3A	SPACER	BOTTOM CHASSIS(x2)	
⚠ 9	LP21257-025A	REAR PANEL		30TW
⚠ 9	LP21257-024A	REAR PANEL		20UJ,30UJ
⚠ 9	LP21257-007A	REAR PANEL		20UC,30UC,30US
10	QYSDSF3008MA	TAP SCREW	FAN(x2)	
11	QAR0310-001	FAN MOTOR		
12	LP31348-002A	FOOT	REAR(x2)	
13	PEME0946-08	SPACER		
14	QYSDST3006ZA	TAP SCREW	DVD UNIT(x4)	30TW
14	QYTDST3006ZA	TAP SCREW	DVD UNIT(x4)	except ver.30TW
15	QYSDSGY3006ZA	TAP SCREW	DVD BRACKET(x4)	
16	QYSPSGG3006ZA	TAP SCREW	MAIN(x2)	
17	QYSPSGG3006ZA	TAP SCREW	REGULATOR(x2)	
18	QYSBSGG3008EA	TAP SCREW	DIGITAL(x2)	30TW
18	QYSPSGG3006ZA	TAP SCREW	DIGITAL(x2)	except ver.30TW
19	QYSBSGG3008EA	TAP SCREW	DIGITAL(x2)	30TW
19	QYSPSGG3006ZA	TAP SCREW	DIGITAL(x2)	except ver.30TW
21	QYSBSGY3008MA	TAP SCREW	REAR JACK(x10)	
22	QYSPSGG3006ZA	TAP SCREW	JACK BOARD	
⚠ 23	QMPR690-170-JD	POWER CORD	1.7m BLACK	30TW
⚠ 23	QMP4A10-170-K	POWER CORD	1.7m BLACK	20UJ,30UJ
⚠ 23	QMPD190-170-K	POWER CORD	1.7m BLACK	20UC,30UC,30US
24	LP21280-002A	BRACKET(HDD)		
25	LPH40267-007A	HDD	(SERVICE)	20UC,20UJ
25	LPH40267-010A	HDD	(SERVICE)	30TW
25	LPH40267-004A	HDD	(SERVICE)	30UC,30UJ,30US
26	LP40738-001B	SCREW	HDD(x4)	
27	PU43192-4	BINDER		
28	QYSDSGY3006ZA	TAP SCREW	HDD BRACKET(x4)	
29	LP31445-001A	SHIELD PLATE		
30	LP31442-001A	PROTECT COVER		
32	PU43192-4	BINDER	AC CORD	
35	LP21156-003A	BRACKET(DVD DRIVE)	DVD DRIVE	
36	QQR1439-003	FERRITE CORE	ATA DVD/HD(x3)	
37	QQR0491-001	FERRITE CORE	AC CORD	
38	LP30002-0F6A	SPACER	ATA WIRE(x2)	
39	LP30002-0A9A	SPACER	ATA WIRE(x3)	
40	LP31417-001A	SHIELD PLATE	DRIVE	
41	LP30002-0G2A	SPACER	FRONT PANEL(x4)	
42	LP41107-001A	GASKET	DVD DRIVE	
43	LP30002-0H4A	SPACER	DVD BRACKET(x2)	
44	LP41107-002A	GASKET	REAR PANEL	30TW
⚠ 45	LP21256-006A	METAL COVER	(SERVICE)	
⚠ 50	QAL0651-001	DRIVE UNIT		
51	LP41170-001A	SPACER(BLIND)	FRONT PANEL	30TW
52	QQR0917-002	CORE FILTER	WR7	30TW
WR 1	QUQ112-1926CJ	FFC WIRE	REGULATOR CN5301-MAIN CN5101	
WR 2	QUQ112-1818CJ	FFC WIRE	SWICH DISPLAY CN7001-MAIN CN3001	
WR 3	QUQ112-1312CG	FFC WIRE	OPERATION CN7101-MAIN CN4001	
WR 4	QUQ112-1112CG	FFC WIRE	OPERATION CN7102-MAIN CN3002	
WR 6	QUQ605-4022AH	FFC WIRE	DIGITAL CN2201-DVD UNIT	
WR 7	QJJ032-041214	SIN CR C-C WIRE	REGULATOR CN5303-DVD UNIT	
WR 8	QGZ0018A1-40	CONNECTOR	HDD & DVD UNIT(x2)	30TW
WR 8	QGZ0020A1-40	CONNECTOR	HDD & DVD UNIT(x2)	except ver.30TW
WR 9	QUQ605-4038AH	FFC WIRE	HDD-DIGITAL CN2101	
WR10	QJJ032-042204	SIN CR C-C WIRE	HDD-REGULATOR CNCN5307	
WR11	QJJ015-062211	SIN CR C-C WIRE	REGULATOR CN5306-DIGITAL	

Electrical parts list

Switching regulator board

Block No. [0][1]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10237-08A	SWITCHING REGULATOR BOARD ASSY		30TW
PW1	LPA10237-08B	SWITCHING REGULATOR BOARD ASSY		20UJ,30UJ
PW1	LPA10237-06B	SWITCHING REGULATOR BOARD ASSY		20UC,30UC,30US
IC5101	STR-G6653-F9	IC		
IC5301	TL431/A/-T	IC		
IC5301 or	MM1431AT-T	IC		
IC5301 or	UTCTL431-T	IC		
IC5301 or	L5431-T	IC		
IC5302	MPD5S017	IC(HYBRID)		
IC5303	MM1563DF-X	IC		
IC5305	MM1565AF-X	IC		
IC5308	MM1665AH-X	IC		
Q5301	2SD2144S/UV/-T	TRANSISTOR		
Q5301 or	2SC3576-JVC-T	TRANSISTOR		
Q5302	UMD12N-W	DIGI TRANSISTOR		
Q5302 or	XP4313-W	DIGI TRANSISTOR		
Q5303	UMD12N-W	DIGI TRANSISTOR		
Q5303 or	XP4313-W	DIGI TRANSISTOR		
Q5304	2SA1585S/QR/-T	TRANSISTOR		
Q5305	DTC114EKA-X	TRANSISTOR		
Q5305 or	UN2211-X	TRANSISTOR		
Q5305 or	RT1N141C-X	DIGI TRANSISTOR		
Q5306	2SA1585S/QR/-T	TRANSISTOR		
Q5307	2SA1585S/QR/-T	TRANSISTOR		
Q5309	2SA1585S/QR/-T	TRANSISTOR		
Q5310	2SD1858/QR/-T	TRANSISTOR		
Q5311	DTC114EUA-X	DIGI TRANSISTOR		
Q5311 or	UN5211-X	DIGI TRANSISTOR		
Q5311 or	RN1302-X	DIGI TRANSISTOR		
Q5311 or	PDTC114EU-X	DIGI TRANSISTOR		
Q5311 or	RT1N141M-X	DIGI TRANSISTOR		
Q5312	DTC114EUA-X	DIGI TRANSISTOR		
Q5312 or	UN5211-X	DIGI TRANSISTOR		
Q5312 or	RN1302-X	DIGI TRANSISTOR		
Q5312 or	PDTC114EU-X	DIGI TRANSISTOR		
Q5312 or	RT1N141M-X	DIGI TRANSISTOR		
Q5316	2SD2144S/UV/-T	TRANSISTOR		
Q5316 or	2SC3576-JVC-T	TRANSISTOR		
D5001	D3SBA60	DIODE		
D5001 or	GBJ4J	BRIDGE DIODE		
D5101	SARS01-T2	SI DIODE		
D5103	AU01Z-T2	FR DIODE		
D5103 or	ERA18-04-T2	FR DIODE		
D5103 or	1SR153-400-T2	FR DIODE		
D5103 or	10ERB20-T2	FR DIODE		
D5103 or	1F4G-T2	FR DIODE		
D5104	1SS133-T2	DIODE		
D5104 or	1SS270A-T2	SI DIODE		
D5105	AU01Z-T2	FR DIODE		
D5105 or	ERA18-04-T2	FR DIODE		
D5105 or	1SR153-400-T2	FR DIODE		
D5105 or	10ERB40-T2	FR DIODE		
D5105 or	1F4G-T2	FR DIODE		
D5106	AU01Z-T2	FR DIODE		
D5106 or	ERA18-04-T2	FR DIODE		
D5106 or	1SR153-400-T2	FR DIODE		
D5106 or	10ERB20-T2	FR DIODE		
D5106 or	1F4G-T2	FR DIODE		
D5201	10ERB20-T2	FR DIODE		
D5201 or	ERA18-02-T2	FR DIODE		
D5202	AU01Z-T2	FR DIODE		
D5202 or	ERA18-04-T2	FR DIODE		
D5202 or	1SR153-400-T2	FR DIODE		
D5202 or	10ERB20-T2	FR DIODE		
D5202 or	1F4G-T2	FR DIODE		
D5203	AU01Z-T2	FR DIODE		
D5203 or	ERA18-02-T2	FR DIODE		
D5203 or	1SR153-400-T2	FR DIODE		
D5203 or	10ERB20-T2	FR DIODE		
D5203 or	1F4G-T2	FR DIODE		
D5204	RL2Z-LFB2	FRD		
D5205	RK34-LFB2	SB DIODE		
D5206	RK34-LFB2	SB DIODE		
D5207	AU01Z-T2	FR DIODE		
D5207 or	ERA18-02-T2	FR DIODE		
D5207 or	1SR153-400-T2	FR DIODE		
D5207 or	10ERB20-T2	FR DIODE		
D5207 or	1F4G-T2	FR DIODE		
D5208	RK14LF-B2	SBD		
D5208 or	21DQ04-F	SBD		20UC,30UC,30US
D5208 or	SB240-F26	SB DIODE		20UC,30UC,30US
D5210	RK34-LFB2	SB DIODE		
D5212	RL2Z-LFB2	FRD		
D5213	RK34-LFB2	SB DIODE		
D5214	RK34-LFB2	SB DIODE		
D5301	MTZJ15A-T2	Z DIODE		
D5301 or	RD15ES/B1/-T2	Z DIODE		
D5302	1SS133-T2	DIODE		
D5302 or	1SS270A-T2	SI DIODE		
D5303	MTZJ27C-T2	Z DIODE		
D5303 or	RD27ES/B3/-T2	Z DIODE		
D5304	MTZJ12B-T2	Z DIODE		
D5304 or	RD12ES/B3/-T2	Z DIODE		
D5306	1SS133-T2	DIODE		
D5306 or	1SS270A-T2	SI DIODE		
D5307	RL2Z-LFB2	FRD		
D5309	RD5.6ES/B3/-T2	Z DIODE		
D5309 or	MTZJ5.6C-T2	Z DIODE		
D5310	1A3G-T2	SI DIODE		
D5310 or	10EDB20-T2	SI DIODE		
D5310 or	ERA15-02-T2	SI DIODE		
D5314	1S4-T2	SB DIODE		
D5314 or	AW04-T2	SB DIODE		
D5314 or	SBO40-T2	SB DIODE		
D5315	RD12ES/B1/-T2	Z DIODE		20UJ,30TW,30UJ
D5315 or	MTZJ12A-T2	Z DIODE		20UJ,30TW,30UJ
D5315	RD11ES/B3/-T2	Z DIODE		20UC,30UC,30US
D5315 or	MTZJ11C-T2	Z DIODE		20UC,30UC,30US
D5317	RK14LF-B2	SBD		
D5317 or	21DQ04-F	SBD		
D5317 or	SB240-F26	SB DIODE		
⚠ PC5101	PC123Y22FZ	PHOTO COUPLER		
⚠ C5001	QFZ9077-683	MPP CAPACITOR	0.068uF 275V M	20UJ,30TW,30UJ
⚠ C5001	QFZ9077-473	MPP CAPACITOR	0.047uF 275V M	20UC,30UC,30US
⚠ C5002	QFZ9077-223	MPP CAPACITOR	0.022uF 275V M	
C5003	QEZ0374-107	E CAPACITOR	100uF 400V M	20UJ,30TW,30UJ
C5003	QEZ0639-337	E CAPACITOR	330uF 200V M	20UC,30UC,30US
⚠ C5004	QCZ9079-222	C CAPACITOR	2200pF AC250V M	20UJ,30TW,30UJ
⚠ C5004	QCZ9079-472	C CAPACITOR	4700pF AC250V M	20UC,30UC,30US
⚠ C5005	QCZ9079-101	C CAPACITOR	100pF AC250V K	
C5101	QCZ0339-101Z	C CAPACITOR	100pF 1kV K	
C5102	QCZ0349-472Z	C CAPACITOR	4700pF 1kV K	
C5103	QEMU1VM-276Z	E CAPACITOR	27uF 35V M	
C5104	QCZ0136-471Z	C CAPACITOR	470pF 1kV K	
C5105	QFLC1HJ-471Z	M CAPACITOR	470pF 50V J	
C5106	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C5107	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C5201	QEMX0JM-227Z	E CAPACITOR	220uF 6.3V M	
C5202	QEMU1HM-186Z	E CAPACITOR	18uF 50V M	
C5203	QEMT1CM-687	E CAPACITOR	680uF 16V M	
C5204	QEMT1CM-128	E CAPACITOR	1200uF 16V M	
C5205	QEMT1AM-158	E CAPACITOR	1500uF 10V M	
C5206	QEMT1AM-128	E CAPACITOR	1200uF 10V M	
C5207	QETN2AM-475Z	E CAPACITOR	4.7uF 100V M	
C5208	QEMT1AM-108	E CAPACITOR	1000uF 10V M	
C5209	QEMT1AM-158	E CAPACITOR	1500uF 10V M	
C5301	QFVF1HJ-154Z	MF CAPACITOR	0.15uF 50V J	
C5302	QFLC1HJ-333Z	M CAPACITOR	0.033uF 50V J	
C5303	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C5304	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C5305	QETN1AM-107Z	E CAPACITOR	100uF 10V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C5306	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C5307	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C5308	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C5309	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C5310	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C5311	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C5312	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C5313	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C5314	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C5315	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C5316	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C5317	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C5318	QECS1CM-477	E CAPACITOR	470uF 16V M	
C5319	QECS1CM-477	E CAPACITOR	470uF 16V M	
C5321	QECS1CM-477	E CAPACITOR	470uF 16V M	
C5322	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C5328	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C5329	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C5330	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C5331	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C5334	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C5335	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C5338	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C5339	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C5340	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C5343	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	30TW
⚠ R5001	QRZ9046-475Z	C RESISTOR	4.7MΩ 1/2W K	20UC,30UC,30US
R5101	QRG02GJ-683	OMF RESISTOR	68kΩ 2W J	
R5102	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R5103	QRE141J-684Y	C RESISTOR	680kΩ 1/4W J	
R5104	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5105	QRE141J-680Y	C RESISTOR	68Ω 1/4W J	
R5106	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R5107	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R5108	QRT01DJ-R27X	MF RESISTOR	0.27Ω 1W J	
⚠ R5109	QRZ9005-470X	FUSI RESISTOR	47Ω 1/4W G	
R5301	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R5302	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R5303	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R5304	NRSA63D-682X	MG RESISTOR	6.8kΩ 1/16W D	
R5305	NRSA63D-223X	MG RESISTOR	22kΩ 1/16W D	
R5306	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D	
⚠ R5307	QRZ9005-470X	FUSI RESISTOR	47Ω 1/4W G	
R5308	QRE141J-681Y	C RESISTOR	680Ω 1/4W J	
R5309	QRE141J-561Y	C RESISTOR	560Ω 1/4W J	
R5310	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5311	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
R5312	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5313	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
R5316	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5317	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R5318	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R5319	QRE141J-8R2Y	C RESISTOR	8.2Ω 1/4W J	
R5320	QRE123J-101X	C RESISTOR	100Ω 1/2W J	
R5321	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5322	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5323	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R5324	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5332	NRSA63D-562X	MG RESISTOR	5.6kΩ 1/16W D	
R5333	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	
R5334	NRSA63D-123X	MG RESISTOR	12kΩ 1/16W D	
R5335	NRSA63D-123X	MG RESISTOR	12kΩ 1/16W D	
R5336	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R5337	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5341	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5343	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
L5201	PELN1184	CHOKE COIL		
L5202	PELN1184	CHOKE COIL		
L5203	PELN1184	CHOKE COIL		
L5204	PELN1184	CHOKE COIL		
L5205	PELN1184	CHOKE COIL		
L5206	PELN1184	CHOKE COIL		
⚠ T5001	QQS0268-001	SW TRANSF		
B5508	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	except ver.30TW
⚠ CN5001	QGA7901C3-02	CONNECTOR	W-B (1-2)	
CN5301	QGF1207C1-19	CONNECTOR	FFC/FPC (1-19)	
CN5303	QGA2501C1-04	CONNECTOR	W-B (1-4)	
CN5305	QGA2001C1-02	CONNECTOR	W-B (1-2)	
CN5306	QGA2001C1-06	CONNECTOR	W-B (1-6)	
CN5307	QGA2501C1-04	CONNECTOR	W-B (1-4)	
⚠ CP5301	QMFZ050-1R5X-E	FUSE	1.5A 125V	
⚠ CP5302	QMFZ050-2R0X-E	FUSE	2A 125V	
⚠ F5001	QMF51E2-2R0-J1	FUSE	2A AC250V	20UJ,30TW,30UJ
⚠ F5001	QMF51N2-1R6-J1	FUSE	1.6A AC250V	20UC,30UC,30US
FC5001	QNG0020-001Z	FUSE CLIP		
FC5002	QNG0020-001Z	FUSE CLIP		
HS1	PEME0889-01-01	HEAT SINK		
⚠ LF5001	QQR0908-001	LINE FILTER		
⚠ VA5001	QAF0039-431Z	VARISTOR	430V	20UC,30UC,30US
W5501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W5502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	20UJ,30TW,30UJ
W5503	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
OT1	QYTDST3008Z	TAP SCREW	M3 x 8mm	30TW
OT2	QYTDST3008ZA	TAP SCREW	M3 x 8mm	except ver.30TW

Digital board

Block No. [0][2]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10247-01C	DIGITAL BOARD ASSY		30TW
PW1	LPA10247-01E	DIGITAL BOARD ASSY		except ver.30TW
IC1001	JCP8059	IC		
IC1002	HY57V161610ET-8	IC		
IC1002 or	K4S161622H-TC80	IC		
IC1002 or	M12L16161A-7TG	IC		
IC1002 or	HY57V161610ETP7	IC		
IC1002 or	MT48LC1M16TG-7S	IC		
IC1201	LPN0877-001A	IC(FLASH)	(SERVICE)	
IC1202	SN74LVC373APW-X	IC(DIGITAL)		
IC1203	SN74LVC373APW-X	IC(DIGITAL)		
IC1401	DMN8652-B0	IC(DIGITAL)		
IC1404	SN74HCT08APW-X	IC		
IC1405	SN74LV08APW-X	IC		
IC1601	HY5DU561622CT-J	IC		
IC1601 or	HYB25D256160CE6	IC		
IC1602	HY5DU561622CT-J	IC		
IC1602 or	HYB25D256160CE6	IC		
IC1603	HY5DU561622CT-J	IC		
IC1603 or	HYB25D256160CE6	IC		
IC1604	HY5DU561622CT-J	IC		
IC1604 or	HYB25D256160CE6	IC		
IC1701	PQ015YZ01Z-X	IC		
IC1801	TSB41AB2PAP	IC		
Q1001	UN221E-X	TRANSTSTOR		
Q1001 or	DTC144WKA-X	DIGI TRANSISTOR		
Q1001 or	RT1N44HC-X	DIGI TRANSISTOR		
Q1002	2SA1037AK/QR/-X	TRANSISTOR		
Q1002 or	2SA1530A/QR/-X	SI TRANSISTOR		
Q1002 or	2SB709A/QR/-X	TRANSISTOR		
Q1003	2SA1037AK/QR/-X	TRANSISTOR		
Q1003 or	2SA1530A/QR/-X	SI TRANSISTOR		
Q1003 or	2SB709A/QR/-X	TRANSISTOR		
Q1004	2SA1037AK/QR/-X	TRANSISTOR		
Q1004 or	2SA1530A/QR/-X	SI TRANSISTOR		
Q1004 or	2SB709A/QR/-X	TRANSISTOR		
Q1005	2SA1037AK/QR/-X	TRANSISTOR		
Q1005 or	2SA1530A/QR/-X	SI TRANSISTOR		
Q1005 or	2SB709A/QR/-X	TRANSISTOR		
Q1008	UMZ1N-W	PAIR TRANSISTOR		
Q1008 or	BC847PN-X	PAIR TRANSISTOR		
Q1008 or	BC846PN-X	PAIR TRANSISTOR		
Q1009	2SC2412K/QRS/-X	TRANSISTOR		
Q1009 or	2SC3928A/QRS/-X	TRANSISTOR		
Q1009 or	2SD601A/QRS/-X	TRANSISTOR		
Q1010	2SC2412K/QRS/-X	TRANSISTOR		
Q1010 or	2SC3928A/QRS/-X	TRANSISTOR		

⚠ Symbol No.	Part No.	Part Name	Description	Local
Q1010	or 2SD601A/QRS/-X	TRANSISTOR		
Q1011	2SC2412K/QRS/-X	TRANSISTOR		
Q1011	or 2SC3928A/QRS/-X	TRANSISTOR		
Q1011	or 2SD601A/QRS/-X	TRANSISTOR		
D1001	1SS355-X	SI DIODE		
D1001	or MA111-X	SI DIODE		except ver.30TW
D1002	1SS355-X	SI DIODE		
D1002	or MA111-X	SI DIODE		except ver.30TW
D1401	1SS355-X	SI DIODE		
D1401	or MA111-X	SI DIODE		
D1402	1SS355-X	SI DIODE		
D1402	or MA111-X	SI DIODE		
D1403	1SS355-X	SI DIODE		
D1403	or MA111-X	SI DIODE		
C1001	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C1002	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1005	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1007	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1009	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1012	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1014	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1015	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1017	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1018	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1019	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1020	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1026	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1030	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1032	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1033	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1034	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1035	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1036	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1038	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1039	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1041	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1042	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1043	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1044	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1045	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1046	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1047	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1048	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1051	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1052	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1053	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1060	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1065	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C1077	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1080	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1081	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1082	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1083	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1090	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1091	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1092	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1093	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1094	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1095	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1096	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1097	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1098	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1203	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1204	NEH90JM-476X	E CAPACITOR	47uF 6.3V M	30TW
C1204	NEHM0JM-476X	E CAPACITOR	47uF 6.3V M	except ver.30TW
C1206	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1207	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1401	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1402	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1404	NEH90JM-476X	E CAPACITOR	47uF 6.3V M	30TW
C1404	NEHM0JM-476X	E CAPACITOR	47uF 6.3V M	except ver.30TW
C1405	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1406	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C1408	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1409	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1411	NEH90JM-107X	E CAPACITOR	100uF 6.3V M	30TW
C1411	NEHM0JM-107X	E CAPACITOR	100uF 6.3V M	except ver.30TW
C1412	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1413	NEH90JM-476X	E CAPACITOR	47uF 6.3V M	30TW
C1413	NEHM0JM-476X	E CAPACITOR	47uF 6.3V M	except ver.30TW
C1414	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1416	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1417	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1418	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1420	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1421	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1422	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1423	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1424	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1425	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1427	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1428	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1429	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1430	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1435	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1436	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1437	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1438	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1439	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1442	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1444	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1445	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1446	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1447	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1448	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1450	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1452	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1453	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1455	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1457	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1458	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1461	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1463	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1464	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1465	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1466	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1467	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1468	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1469	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1470	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1471	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1472	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1473	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1474	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1475	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1601	NEZ0019-157X	OS E CAPACITOR	150uF 4V M	
C1602	NEZ0019-157X	OS E CAPACITOR	150uF 4V M	
C1605	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1606	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1607	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1608	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1609	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1610	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1611	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1612	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1613	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1614	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1615	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1616	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1617	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1618	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1619	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1620	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1621	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1622	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1623	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1624	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1625	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1626	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1627	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1628	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C1629	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1630	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1631	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1632	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1633	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1634	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1635	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1636	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1642	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1644	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1646	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1650	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1652	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1654	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1656	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1658	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1660	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1662	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1702	NEH90JM-107X	E CAPACITOR	100uF 6.3V M	30TW
C1702	NEHM0JM-107X	E CAPACITOR	100uF 6.3V M	except ver.30TW
C1703	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1704	NEH90JM-107X	E CAPACITOR	100uF 6.3V M	30TW
C1704	NEHM0JM-107X	E CAPACITOR	100uF 6.3V M	except ver.30TW
C1706	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1707	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1708	NBE20JM-476X	TA E CAPACITOR	47uF 6.3V M	
C1710	NBE20JM-476X	TA E CAPACITOR	47uF 6.3V M	
C1801	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1802	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
C1803	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1804	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1805	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1806	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1807	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1808	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C1809	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C1811	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1812	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R1001	NRSA63D-221X	MG RESISTOR	220Ω 1/16W D	
R1002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1009	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1013	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1014	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1015	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1017	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1020	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	except ver.30TW
R1021	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	
R1022	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D	
R1024	NRSA63D-272X	MG RESISTOR	2.7kΩ 1/16W D	
R1027	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R1028	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R1029	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1030	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1031	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1032	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1033	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1034	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1035	NQR0129-002X	FERRITE BEADS		
R1036	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1037	NRSA63D-101X	MG RESISTOR	100Ω 1/16W D	
R1038	NQR0129-002X	FERRITE BEADS		
R1039	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1040	NRSA63D-101X	MG RESISTOR	100Ω 1/16W D	
R1041	NQR0129-002X	FERRITE BEADS		
R1042	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1043	NRSA63D-151X	MG RESISTOR	150Ω 1/16W D	
R1044	NQR0129-002X	FERRITE BEADS		
R1045	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1046	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1047	NRSA63D-221X	MG RESISTOR	220Ω 1/16W D	
R1050	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R1054	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	
R1056	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1057	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1059	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1060	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1061	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1065	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R1066	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1067	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R1068	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1069	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1070	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D	
R1071	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D	
R1072	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1217	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1218	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1219	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1220	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1221	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1222	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1225	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1226	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1229	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1230	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1231	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1401	NRSA63F-1181X	MG RESISTOR	1.18kΩ 1/16W F	
R1402	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1408	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1409	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1410	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1411	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1412	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1413	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1414	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1415	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1416	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1417	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1419	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1420	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1427	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1428	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1429	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1430	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1431	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1434	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1435	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1436	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1437	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1438	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1439	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1440	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1441	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1443	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1444	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1445	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1446	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1447	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1448	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1449	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1450	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1451	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1452	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1453	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1458	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1459	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1460	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1461	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1462	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1465	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1466	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1467	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1468	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1469	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1470	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1471	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R1472	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1473	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1474	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1475	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1476	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1477	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1478	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1479	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1480	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	except ver.30TW
R1481	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	except ver.30TW
R1482	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1483	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	except ver.30TW
R1491	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1493	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1494	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1495	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1601	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1602	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1603	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1604	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1605	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1606	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1607	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1608	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1613	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1614	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1615	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1616	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1617	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1618	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1619	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1620	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1621	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1622	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1623	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1624	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1625	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1626	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1627	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1628	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1629	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1630	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1631	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1632	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1641	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1642	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1643	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1644	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1653	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1654	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1655	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1656	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1657	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1658	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1659	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1660	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1701	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1702	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1703	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1704	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1801	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1802	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1803	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1804	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1805	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1807	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1809	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1810	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J	
R1812	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1813	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1814	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1815	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1816	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1817	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R1818	NRSA63D-562X	MG RESISTOR	5.6kΩ 1/16W D	
R1819	NRSA63D-751X	MG RESISTOR	750Ω 1/16W D	
R1820	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1821	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1822	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2101	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2102	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2103	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R2104	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2105	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2106	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2107	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2108	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2109	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2110	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2111	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2112	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2113	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2114	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2115	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2202	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R2203	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2204	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2205	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2206	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2207	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2208	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2209	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2210	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2211	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2212	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2213	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2214	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2215	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
RA1001	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA1002	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA1003	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1004	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1005	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1006	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1201	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1202	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1203	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1204	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1401	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1402	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1403	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1404	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1405	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1406	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1407	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1408	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1409	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1410	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1411	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1609	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1610	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1611	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1612	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1613	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1614	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1615	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1616	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1617	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1618	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1619	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1620	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1621	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1622	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1623	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1624	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1625	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1626	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1627	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1628	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1629	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1630	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1631	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1632	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1801	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1802	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	

⚠ Symbol No.	Part No.	Part Name	Description	Local
RA2101	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2102	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2103	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2104	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2208	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2209	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2210	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2211	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
L1004	NQL144K-100X	P COIL	10uH K	
L1801	NQL144K-100X	P COIL	10uH K	
T1801	NQR0444-001X	CHOKE COIL		
B1001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	except ver.30TW
B1007	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	except ver.30TW
B1008	NQR0339-001X	FERRITE BEADS		except ver.30TW
B1202	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	except ver.30TW
B1405	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	except ver.30TW
B1802	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	except ver.30TW
CN1001	QGB2027L5-28X	CONNECTOR	B-B (1-28)	
CN1002	QGB2027L5-20X	CONNECTOR	B-B (1-20)	
CN1003	QGA2001F2-06V	CONNECTOR	W-B (1-6)	
CN1402	QGA2001C2-04V	CONNECTOR	W-B (1-4)	
CN1403	QGF1016C2-04W	CONNECTOR	FFC/FPC (1-4)	
CN1801	QGB2027L1-10X	CONNECTOR	B-B (1-10)	
CN2101	QGF0539C1-40W	CONNECTOR	FFC/FPC (1-40)	
CN2201	QGF0539C1-40W	CONNECTOR	FFC/FPC (1-40)	
K1001	NQR0339-001X	FERRITE BEADS		
K1002	NQR0129-002X	FERRITE BEADS		
K1003	NQR0129-002X	FERRITE BEADS		
K1004	NQR0129-002X	FERRITE BEADS		
K1005	NQR0129-002X	FERRITE BEADS		
K1006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1008	NQR0129-002X	FERRITE BEADS		
K1009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1010	NQR0129-002X	FERRITE BEADS		
K1011	NQR0129-002X	FERRITE BEADS		
K1012	NQR0129-002X	FERRITE BEADS		
K1013	NQR0129-002X	FERRITE BEADS		
K1014	NQR0129-002X	FERRITE BEADS		
K1015	NQR0129-002X	FERRITE BEADS		
K1016	NQR0129-002X	FERRITE BEADS		
K1017	NQR0129-002X	FERRITE BEADS		
K1018	NQR0129-002X	FERRITE BEADS		
K1019	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1020	NQR0129-002X	FERRITE BEADS		
K1021	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	except ver.30TW
K1022	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	except ver.30TW
K1023	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	except ver.30TW
K1201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1401	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1402	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1403	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1404	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1406	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1407	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1408	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1701	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1702	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1801	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K2101	NQR0129-002X	FERRITE BEADS		
K2102	NQR0129-002X	FERRITE BEADS		
K2103	NQR0129-002X	FERRITE BEADS		
K2104	NQR0129-002X	FERRITE BEADS		
K2105	NQR0129-002X	FERRITE BEADS		
K2106	NQR0129-002X	FERRITE BEADS		
K2107	NQR0129-002X	FERRITE BEADS		
K2108	NQR0129-002X	FERRITE BEADS		
K2109	NQR0129-002X	FERRITE BEADS		
K2110	NQR0129-002X	FERRITE BEADS		
K2111	NQR0129-002X	FERRITE BEADS		
K2112	NQR0129-002X	FERRITE BEADS		
K2113	NQR0129-002X	FERRITE BEADS		
K2114	NQR0129-002X	FERRITE BEADS		
K2115	NQR0129-002X	FERRITE BEADS		
K2116	NQR0129-002X	FERRITE BEADS		
K2117	NQR0129-002X	FERRITE BEADS		
K2118	NQR0129-002X	FERRITE BEADS		
K2119	NQR0129-002X	FERRITE BEADS		
K2120	NQR0129-002X	FERRITE BEADS		
K2121	NQR0129-002X	FERRITE BEADS		
K2201	NQR0129-002X	FERRITE BEADS		
K2202	NQR0129-002X	FERRITE BEADS		
K2203	NQR0129-002X	FERRITE BEADS		
K2204	NQR0129-002X	FERRITE BEADS		
K2205	NQR0129-002X	FERRITE BEADS		
K2206	NQR0129-002X	FERRITE BEADS		
K2207	NQR0129-002X	FERRITE BEADS		
K2208	NQR0129-002X	FERRITE BEADS		
K2209	NQR0129-002X	FERRITE BEADS		
K2210	NQR0129-002X	FERRITE BEADS		
K2211	NQR0129-002X	FERRITE BEADS		
K2212	NQR0129-002X	FERRITE BEADS		
K2213	NQR0129-002X	FERRITE BEADS		
K2214	NQR0129-002X	FERRITE BEADS		
K2215	NQR0129-002X	FERRITE BEADS		
K2216	NQR0129-002X	FERRITE BEADS		
K2217	NQR0129-002X	FERRITE BEADS		
K2218	NQR0129-002X	FERRITE BEADS		
K2219	NQR0129-002X	FERRITE BEADS		
K2220	NQR0129-002X	FERRITE BEADS		
K2221	NQR0129-002X	FERRITE BEADS		
LC1401	NQR0512-008X	EMI FILTER		
LC1402	NQR0512-008X	EMI FILTER		
LC1403	NQR0512-008X	EMI FILTER		
OT1	LC41656-001A	COOLING SHEET		
SD1	LP21279-001A	SHIELD CASE		
WR1	QUB541-04A1A1	SIN TWIST WIRE		except ver.30TW
X1401	NAX0580-001X	CXO	27.0000MHz	
X1801	NAX0551-001X	CRYSTAL	24.576MHz	

Main board

Block No. [0][3]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10230-10B1	MAIN BOARD ASSY		30TW
PW1	LPA10230-09A1	MAIN BOARD ASSY		20UJ,30UJ
PW1	LPA10230-03E1	MAIN BOARD ASSY		20UC,30UC,30US
IC3001	HD6432194SXD79F	IC(MCU)	MASK	
IC3002	IC-PST3427U-X	IC		
IC3004	LPN0875-001E-31	IC(EEPROM)	*(REFER TO BELOW)	except ver.30TW
IC3004	LPN0947-001D-32	IC(EEPROM)	*(REFER TO BELOW)	30TW
IC4001	JCP8038-I	IC		
IC4001 or	JCP8038	IC		
IC4003	MM1503XN-X	IC		
IC4101	MM1623XF-X	IC		
IC6501	AN5832SA-W	IC		
IC8001	AK5365VQ	IC		
IC8201	AK4385VT-X	IC		
IC8201 or	AK4381VT-X	IC		
IC8202	BA15218F-XE	IC		
IC8501	SN74LV08APW-X	IC		
Q3004	2SD601A/QRS/-X	TRANSISTOR		
Q3004 or	2SC2412K/QRS/-X	TRANSISTOR		
Q3004 or	2SC3928A/QRS/-X	TRANSISTOR		
Q3009	UN221E-X	TRANSTSTOR		
Q3009 or	DTC144WKA-X	DIGI TRANSISTOR		except ver.30TW
Q3009 or	RT1N44HC-X	DIGI TRANSISTOR		except ver.30TW
Q3010	UN221E-X	TRANSTSTOR		
Q3010 or	DTC144WKA-X	DIGI TRANSISTOR		except ver.30TW
Q3010 or	RT1N44HC-X	DIGI TRANSISTOR		except ver.30TW
Q3901	UN221E-X	TRANSTSTOR		30TW
Q3901 or	DTC144WKA-X	DIGI TRANSISTOR		30TW
Q3901 or	RT1N44HC-X	DIGI TRANSISTOR		30TW
Q4001	2SA1037AK/QR/-X	TRANSISTOR		
Q4001 or	2SA1530A/QR/-X	TRANSISTOR		
Q4001 or	2SB709A/QR/-X	TRANSISTOR		
Q4003	2SC2412K/QRS/-X	TRANSISTOR		
Q4003 or	2SC3928A/QRS/-X	TRANSISTOR		

After exchanging EEPROMs, a main part does not correspond to some remote control commands at Jig RCU mode. Please cancel the Jig RCU mode of a main part after exchanging EEPROMs. Please refer to the "Canceling JIG mode" about the release method.

⚠ Symbol No.	Part No.	Part Name	Description	Local
Q4003	or 2SD601A/QRS/-X	TRANSISTOR		
Q4004	2SA1037AK/QR/-X	TRANSISTOR		
Q4004	or 2SA1530A/QR/-X	TRANSISTOR		
Q4004	or 2SB709A/QR/-X	TRANSISTOR		
Q4006	2SC2412K/QRS/-X	TRANSISTOR		
Q4006	or 2SC3928A/QRS/-X	TRANSISTOR		
Q4101	2SB709A/QR/-X	TRANSISTOR		
Q4101	or 2SA1037AK/QR/-X	TRANSISTOR		
Q4101	or 2SA1530A/QR/-X	TRANSISTOR		
Q6030	2SA1037AK/QR/-X	TRANSISTOR		
Q6030	or 2SB709A/QR/-X	TRANSISTOR		
Q6030	or 2SA1530A/QR/-X	SI TRANSISTOR		
Q7201	2SC1317/RS/-T	TRANSISTOR		except ver.30TW
Q8203	2SC2412K/QRS/-X	TRANSISTOR		
Q8203	or 2SD601A/QRS/-X	TRANSISTOR		
Q8203	or 2SC3928A/QRS/-X	TRANSISTOR		
Q8204	2SC2412K/QRS/-X	TRANSISTOR		
Q8204	or 2SD601A/QRS/-X	TRANSISTOR		
Q8204	or 2SC3928A/QRS/-X	TRANSISTOR		
Q8205	2SC2412K/QRS/-X	TRANSISTOR		
Q8205	or 2SD601A/QRS/-X	TRANSISTOR		
Q8205	or 2SC3928A/QRS/-X	TRANSISTOR		
Q8206	2SC2412K/QRS/-X	TRANSISTOR		
Q8206	or 2SD601A/QRS/-X	TRANSISTOR		
Q8206	or 2SC3928A/QRS/-X	TRANSISTOR		
Q8207	UN221E-X	TRANSTSTOR		
Q8207	or DTC144WKA-X	DIGI TRANSISTOR		
Q8207	or RT1N44HC-X	DIGI TRANSISTOR		
Q8208	UN211E-X	DIGI TRANSISTOR		
Q8208	or DTA144WKA-X	TRANSISTOR		
Q8208	or RT1P44HC-X	DIGI TRANSISTOR		
D3002	1SS133-T2	DIODE		
D3002	or 1SS270A-T2	SI DIODE		
D3003	RD39ES/B3/-T2	Z DIODE		
D3003	or MTZJ39C-T2	Z DIODE		
D3004	10EDB20-T2	SI DIODE		
D3004	or 1A3G-T2	SI DIODE		
D3005	10EDB20-T2	SI DIODE		
D3005	or 1A3G-T2	SI DIODE		
D3007	1SS355-X	SI DIODE		except ver.30TW
D3007	or MA111-X	SI DIODE		except ver.30TW
D4001	DA204U-X	SI DIODE		
D4002	DA204U-X	SI DIODE		
D6002	HZ30-2L-T2	Z DIODE		
D6002	or HZ30-2LTD	Z DIODE		
D8001	1SS355-X	SI DIODE		
D8001	or MA111-X	SI DIODE		
C3007	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3010	QEZ0244-229	EDL CAPACITOR	0.022F 5.5V Z	
C3014	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C3015	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3016	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3022	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3024	NDC31HJ-220X	C CAPACITOR	22pF 50V J	20UJ,30TW,30UJ
C3024	NDC31HJ-120X	C CAPACITOR	12pF 50V J	20UC,30UC,30US
C3025	QAT3725-300Z	TRIM CAPACITOR	30pF TIMER CLOCK	20UJ,30TW,30UJ
C3027	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C3030	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C3031	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3032	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3033	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3036	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C3037	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C3038	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C3039	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3041	NDC31HJ-180X	C CAPACITOR	18pF 50V J	20UC,30UC,30US
C3042	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C3050	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3054	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4001	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C4002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4003	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C4005	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4006	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4008	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C4010	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C4012	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4013	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C4015	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4016	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4018	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C4019	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C4021	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4022	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4023	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4024	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4025	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4026	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4027	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C4028	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C4029	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C4030	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4033	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4034	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C4035	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4036	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4037	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4039	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4040	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4041	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4043	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C4045	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C4046	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4047	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4049	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C4050	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C4055	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C4056	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4058	QEKJ1HM-474Z	E CAPACITOR	0.47uF 50V M	
C4059	QEKJ1HM-474Z	E CAPACITOR	0.47uF 50V M	
C4061	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4065	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C4067	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C4068	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C4069	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C4070	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C4071	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4072	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C4073	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C4076	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C4077	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4084	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C4101	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4102	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4103	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C4104	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C4105	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C4106	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C4107	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C4108	QETN0JM-227Z	E CAPACITOR	220uF 6.3V M	
C4109	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4115	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4116	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	
C4117	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4118	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	
C4119	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	
C4120	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C4121	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C4123	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C4124	NDC31HJ-6R0X	C CAPACITOR	6pF 50V J	
C6501	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C6502	QEKJ1HM-334Z	E CAPACITOR	0.33uF 50V M	
C6503	QEKJ1HM-335Z	E CAPACITOR	3.3uF 50V M	
C6504	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6506	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C6507	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C6508	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C6509	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C6510	QEKJ1HM-334Z	E CAPACITOR	0.33uF 50V M	
C6511	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6512	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C6514	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C6515	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C6516	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C6519	QETJ1EM-476Z	E CAPACITOR	47uF 25V M	
C6520	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C6521	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C6522	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C6523	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C7202	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	except ver.30TW
C8005	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C8007	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C8008	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C8009	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C8010	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C8011	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C8012	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C8014	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C8021	QERF1HM-475Z	E CAPACITOR	4.7uF 50V M	
C8022	QERF1HM-475Z	E CAPACITOR	4.7uF 50V M	
C8023	QERF0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8024	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8025	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C8026	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8027	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8028	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8201	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8202	QETJ0JM-477Z	E CAPACITOR	470uF 6.3V M	
C8203	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C8204	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C8205	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C8206	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C8207	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C8208	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C8209	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8210	QETJ1CM-227Z	E CAPACITOR	220uF 16V M	
C8211	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8212	QETJ1CM-227Z	E CAPACITOR	220uF 16V M	
C8215	QETJ1EM-476Z	E CAPACITOR	47uF 25V M	
C8216	QETJ1EM-476Z	E CAPACITOR	47uF 25V M	
C8217	QETJ1EM-476Z	E CAPACITOR	47uF 25V M	
C8218	QETJ1EM-476Z	E CAPACITOR	47uF 25V M	
C8401	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8402	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8501	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C8502	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8503	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C8504	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C8505	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C8506	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R3017	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3018	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	except ver.30TW
R3020	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3028	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3029	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3030	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	except ver.30TW
R3032	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3036	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3038	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3039	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3040	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3041	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3042	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3044	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	except ver.30TW
R3046	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3047	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3048	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3049	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3050	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3051	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3052	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3053	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3054	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3055	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3059	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3060	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3061	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3062	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3063	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3066	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3069	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3071	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3072	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3075	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3076	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3081	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3083	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3085	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3086	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3089	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3090	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3097	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3213	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R3214	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R3218	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3219	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3220	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3223	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3224	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3229	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R3230	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3231	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3233	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3235	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3236	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3237	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	except ver.30TW
R3238	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	30TW
R3239	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3240	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3251	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3252	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3256	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3257	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3258	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3260	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	except ver.30TW
R4001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4010	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R4011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4017	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4018	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R4021	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R4026	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4027	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R4028	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R4029	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4030	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R4031	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R4033	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4034	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4035	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R4044	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R4045	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R4046	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4047	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4048	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R4049	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4050	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4051	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4052	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4053	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4054	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4055	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4056	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4057	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4058	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4059	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4060	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4101	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R4102	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4120	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R4121	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R4122	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R4124	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R4125	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4126	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R4127	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R4128	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R4130	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4131	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4138	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R4139	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R4140	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R6020	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6021	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6030	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R6031	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6501	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6503	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R6504	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6505	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6508	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R6509	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R6510	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R6511	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R6512	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R6515	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6516	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7202	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	except ver.30TW
R7203	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	except ver.30TW
R7204	QRE121J-100Y	C RESISTOR	10Ω 1/2W J	except ver.30TW
R7211	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	except ver.30TW
R7212	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	except ver.30TW
R7213	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	except ver.30TW
R8001	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R8002	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R8007	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R8008	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R8013	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R8014	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R8015	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R8016	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R8017	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R8019	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D	
R8020	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D	
R8021	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D	
R8022	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D	
R8023	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D	
R8024	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D	
R8026	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R8031	NRSA63D-203X	MG RESISTOR	20kΩ 1/16W D	
R8032	NRSA63D-203X	MG RESISTOR	20kΩ 1/16W D	
R8033	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8034	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8035	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8036	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8039	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8040	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R8041	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R8042	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R8043	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R8044	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R8045	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R8046	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R8047	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R8201	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R8202	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8203	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8204	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8206	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R8211	NRSA63D-432X	MG RESISTOR	4.3kΩ 1/16W D	
R8212	NRSA63D-432X	MG RESISTOR	4.3kΩ 1/16W D	
R8213	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	
R8214	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	
R8215	NRSA63D-121X	MG RESISTOR	120Ω 1/16W D	
R8216	NRSA63D-121X	MG RESISTOR	120Ω 1/16W D	
R8217	NRSA63D-432X	MG RESISTOR	4.3kΩ 1/16W D	
R8218	NRSA63D-432X	MG RESISTOR	4.3kΩ 1/16W D	
R8219	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	
R8220	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	
R8221	NRSA63D-121X	MG RESISTOR	120Ω 1/16W D	
R8222	NRSA63D-121X	MG RESISTOR	120Ω 1/16W D	
R8223	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R8224	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R8233	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R8234	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R8241	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R8242	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8244	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8245	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R8246	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8248	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8249	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R8250	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8252	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8253	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R8254	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8256	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8501	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
R8502	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R8503	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R8504	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R8505	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R8506	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R8507	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
L3001	QQL231J-R22Y	COIL	0.22uH J	
L4001	QQL29BJ-100Z	P COIL	10uH J	
L4002	QQL29BJ-100Z	P COIL	10uH J	
L4004	QQL231J-330Y	COIL	33uH J	
L4006	QQL29BJ-100Z	P COIL	10uH J	
L4007	QQL231J-8R2Y	COIL	8.2uH J	
L4101	QQL29BJ-100Z	P COIL	10uH J	
L4102	QQL071J-6R8Y	COIL	6.8uH J	
L6003	QQL29BK-1R0Z	P COIL	1uH K	
L6005	QQL29BK-1R0Z	P COIL	1uH K	
L7201	QQL29BJ-100Z	P COIL	10uH J	except ver.30TW
L8501	QQL071J-1R0Y	COIL	1uH J	
B4001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	except ver.30TW
B4002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	except ver.30TW
B4006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	except ver.30TW
B4113	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	except ver.30TW
B4115	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	except ver.30TW
B6021	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	except ver.30TW
B6024	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	except ver.30TW
B6608	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	except ver.30TW
B7201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	except ver.30TW
B8001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	except ver.30TW
CN3001	QGF1207C1-18	CONNECTOR	FFC/FPC (1-18)	
CN3002	QGF1207C1-13	CONNECTOR	FFC/FPC (1-13)	
CN3901	QGF1207C1-06	CONNECTOR	FFC/FPC (1-6)	30TW
CN4001	QGF1207C1-11	CONNECTOR	FFC/FPC (1-11)	
CN4101	QGB2027M5-28S	CONNECTOR	B-B (1-28)	
CN4102	QGB2027M5-20S	CONNECTOR	B-B (1-20)	
CN5101	QGF1207C1-19	CONNECTOR	FFC/FPC (1-19)	
GN5	QNZ0136-001Z	EARTH PLATE		
J4002	QNN0636-001	PIN JACK	REAR 1 IN	
J4003	QNN0636-001	PIN JACK	REAR 2 IN	
J4101	QND0094-001	S JACK	S-VIDEO IN	
J4102	QND0094-001	S JACK	S-VIDEO OUT	
J4103	QNN0635-001	PIN JACK	REAR 1 OUT	
J4104	QNN0635-001	PIN JACK	REAR 2 OUT	
J4105	QNN0635-002	PIN JACK	COMPONENT	
J7201	PU60612	MINI JACK	C.B.CONTROL	except ver.30TW
J7202	PU60612	MINI JACK	AV COMPULINK	except ver.30TW
J8401	GP1FA513TZ0F	OPT TRANSMITTER	OPTICAL	
J8501	QNN0096-001	PIN JACK	COAXIAL	
K8201	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
K8501	NQR0227-004X	FERRITE BEADS		
TU6001	QAU0336-002	TUNER		
W1	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W2	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W3	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W4	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W5	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W6	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W7	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W8	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W9	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
W10	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W11	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W12	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W13	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W14	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W15	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W16	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W17	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W18	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W19	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W22	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W23	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W24	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W25	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W26	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W27	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W28	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W29	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W226	QRE141J-4R7Y	C RESISTOR	4.7Ω 1/4W J	
X3001	QAX0445-001	CRYSTAL	32.768kHz	20UJ,30TW,30UJ
X3001	QAX0444-001	CRYSTAL	32.768kHz	20UC,30UC,30US
X3002	QAX0527-001	CRYSTAL	10.000000MHz	
OT1	PEME0946-04	SPACER	(x3)	

Operation board

Block No. [2][7]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10230-10B3	OPERATION BOARD ASSY		30TW
PW1	LPA10230-09A3	OPERATION BOARD ASSY		20UJ,30UJ
PW1	LPA10230-03E3	OPERATION BOARD ASSY		20UC,30UC,30US
Q7104	DTA114ESA-T	DIGI TRANSISTOR		
Q7104 or	KRA102M-T	DIGI TRANSISTOR		
Q7105	DTA114ESA-T	DIGI TRANSISTOR		
Q7105 or	KRA102M-T	DIGI TRANSISTOR		
Q7106	DTA114ESA-T	DIGI TRANSISTOR		
Q7106 or	KRA102M-T	DIGI TRANSISTOR		
Q7107	DTA114ESA-T	DIGI TRANSISTOR		
Q7107 or	KRA102M-T	DIGI TRANSISTOR		
D7112	1SS133-T2	DIODE		
D7112 or	1SS270A-T2	SI DIODE		
D7113	1SS133-T2	DIODE		
D7113 or	1SS270A-T2	SI DIODE		
D7114	1SS133-T2	DIODE		
D7114 or	1SS270A-T2	SI DIODE		
D7115	1SS133-T2	DIODE		
D7115 or	1SS270A-T2	SI DIODE		
D7124	SDPC3DC0	LED	DVD	
D7125	SLI-343URC3F	LED	DVD REC	
D7126	SDPB3DC0	LED	HDD	
D7127	SLI-343URC3F	LED	HDD REC	
C7150	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7108	QRE141J-681Y	C RESISTOR	680Ω 1/4W J	
R7110	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R7112	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R7114	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R7151	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7152	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7153	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7154	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7155	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7156	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN7101	QGF1208F1-13	CONNECTOR	FFC/FPC (1-13)	
CN7102	QGF1208F1-11	CONNECTOR	FFC/FPC (1-11)	
J7001	QND0084-001	S JACK	FRONT S-VIDEO	
J7002	QNN0364-002	PIN JACK	FRONT A/V	
OT1	LP30002-0G7A	SPACER		
S7113	QSW0381-001Z	TACT SWITCH	DVD	
S7114	QSW0381-001Z	TACT SWITCH	HDD	
S7115	QSW0381-001Z	TACT SWITCH	REC	
S7132	QSW0381-001Z	TACT SWITCH	OPEN/CLOSE	
S7133	QSW0381-001Z	TACT SWITCH	STOP	
S7134	QSW0381-001Z	TACT SWITCH	PLAY	
S7135	QSW0381-001Z	TACT SWITCH	PAUSE	

Switch Display board

Block No. [2][8]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10230-10B2	SWITCH DISPLAY BOARD ASSY		30TW
PW1	LPA10230-09A2	SWITCH DISPLAY BOARD ASSY		20UJ,30UJ
PW1	LPA10230-03E2	SWITCH DISPLAY BOARD ASSY		20UC,30UC,30US
IC7001	UPD16315GB-3BS	IC		
IC7001 or	PT6315	IC		
IC7002	GP1UM281XK	IR DETECT UNIT 38kHz		
IC7002 or	PNA4652M00XB	IR DETECT UNIT 38kHz		
Q7001	2SC1740S/QRS/-T	TRANSISTOR		
Q7001 or	2SC3199/YG/-T	TRANSISTOR		
Q7001 or	KTC3199/YG/-T	TRANSISTOR		
D7001	1SS133-T2	DIODE		
D7001 or	1SS270A-T2	SI DIODE		
D7021	RD9.1ES/B2/-T2	Z DIODE		
D7021 or	MTZJ9.1B-T2	Z DIODE		
D7042	1SS133-T2	DIODE		
D7042 or	1SS270A-T2	SI DIODE		
D7043	SDPB3DC0/Z1/	LED	ILLUM	
C7001	QCFB1HZ-104Y	C CAPACITOR	0.1uF 50V Z	
C7002	QCFB1HZ-104Y	C CAPACITOR	0.1uF 50V Z	
C7003	QEKJ1HM-106Z	E CAPACITOR	10uF 50V M	
C7006	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C7007	QCFB1HZ-104Y	C CAPACITOR	0.1uF 50V Z	
C7008	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C7010	QCFB1HZ-473Y	C CAPACITOR	0.047uF 50V Z	
C7011	QCFB1HZ-473Y	C CAPACITOR	0.047uF 50V Z	
C7056	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
R7001	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7002	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7003	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R7005	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7006	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7007	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7009	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R7010	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7013	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R7014	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R7015	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7044	QRE141J-392Y	C RESISTOR	3.9kΩ 1/4W J	
R7045	QRE141J-270Y	C RESISTOR	27Ω 1/4W J	
R7047	QRE141J-182Y	C RESISTOR	1.8kΩ 1/4W J	
CN7001	QGF1207C1-18	CONNECTOR	FFC/FPC (1-18)	
DI7001	QLF0124-001	FL TUBE		
S7001	QSW0381-001Z	TACT SWITCH	STANDBY/ON	
HD1	PQ34949-1-1	FL HOLDER(L)		
HD2	LP21255-001A	FL HOLDER(R)		

Jack board

Block No. [3][6]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10230-09A4	JACK BOARD ASSY		20UJ
PW1	LPA10230-10B4	JACK BOARD ASSY		30TW
PW1	LPA10230-03E4	JACK BOARD ASSY		20UC,30UC,30US
CN4104	QGB2027M1-10S	CONNECTOR	B-B (1-10)	
J4112	QNZ0675-001	D CONNECTOR	DV IN	
OT1	QZW0021-001	PC SUPPORT		

Digital SUB board

Block No. [9][8]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB20835F-CS	DIGI SUB CM ASSY		30TW
R0110	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	30TW
R0120	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	30TW
R0130	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	30TW

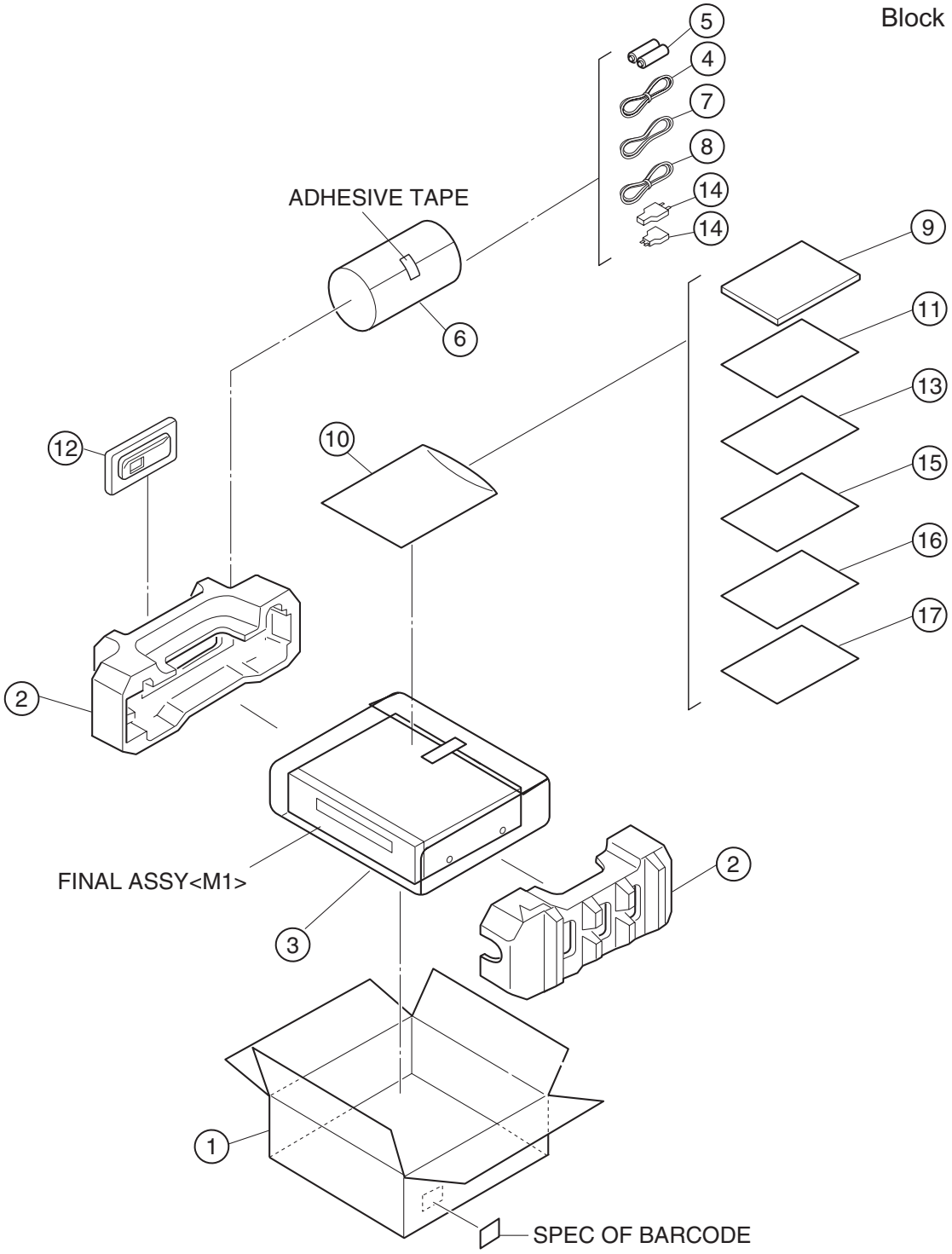
MAIN SUB board

Block No. [9][9]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB20835G-CS	MAIN SUB CM ASSY		
K0110	NQR0129-002X	FERRITE BEADS		
K0120	NQR0129-002X	FERRITE BEADS		
K0130	NQR0129-002X	FERRITE BEADS		

Packing materials and accessories parts list

Block No.M2MM



Packing and accessories

Block No. [M][2][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	LP31384-018A	PACKING CASE		20UC,20UJ
1	LP31384-033A	PACKING CASE		30TW
1	LP31384-017A	PACKING CASE		30UC,30UJ,30US
2	LP31387-002A	CUSHION ASSY		
3	PQM30021-93	POLY BAG		
4	QAM0501-002	RF CABLE		
5	----------	BATTERY	R6TYPE(x2)	
6	QPC02202230P	POLY BAG	22cm x 22cm	
7	QAL0517-005	LED CABLE ASSY		except ver.30TW
8	QAM0522-001	A/V CABLE		
⚠ 9	LPT0973-001A	INST.BOOK	(CHINESE)	30TW
⚠ 9	LPT0921-002B	INST.BOOK	(FRENCH)	20UC,30UC
⚠ 9	LPT0974-001B	INST.BOOK	(ENGLISH)	20UJ,30UJ
⚠ 9	LPT0921-001B	INST.BOOK	(ENGLISH)	20UC,30UC,30US
10	QPC02503530P	POLY BAG	25cm x 35cm	
11	BT-52006-2	WARRANTY CARD		20UC,30UC
12	RM-SDR019A	REMOCON		30TW
12	RM-SDR012J	REMOCON		except ver.30TW
13	LPT0921-004A	SHEET(FR-ATT.)		20UC,30UC
13	LPT0921-003A	SHEET(EN-ATT.)		except ver.30TW
⚠ 14	QAM0027-002	CONVERSION PLUG		30TW
⚠ 14	QAM0060-002	CONVERSION PLUG		20UJ,30UJ
15	BT-51034-2	REGIST CARD		20UJ,30UJ,30US
16	LPT0973-002A	SHEET(TW-DEMO)		30TW
17	LPT0973-003A	SHEET(HDD TIME)		30TW